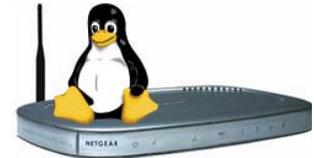Welcome to CCTV4all.com

Set-up for a Netgear DG834G (802.11b & g) ADSL Router with the Adpro FastTrace

Fig1

This is a step-by-step guide on the set-up for a Netgear DG834G Router (Fig. 1) for use with a remote an Adpro FastTrace remote monitoring CCTV system.
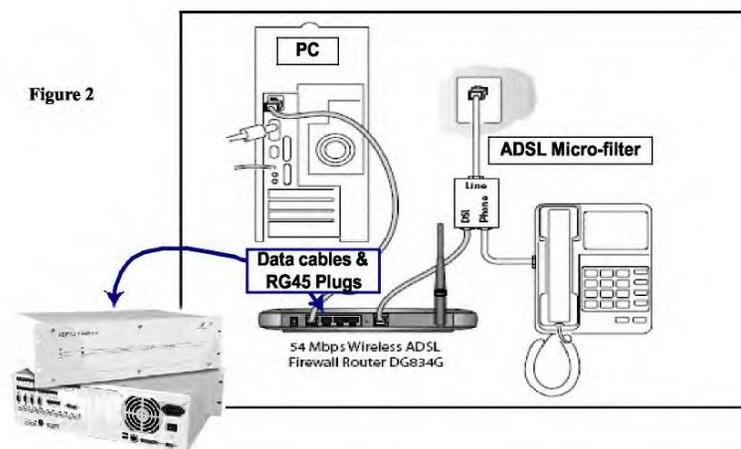

Before you can proceed further with this guide you must first

Have your static IP address details including your login username and password from your Internet service provider.

The set-up has been tested for use with an Adpro FastTrace, but the instructions are generic, applying equally to other Adpro devices such as the FastVu and FastTX. You will require some basic networking knowledge and you will need a PC with a LAN connection and two Cat5 patch lead.

This setup will use the following IP addressing, Router as 192.168.0.1, Adpro as 192.168.0.2 and the onsite PC as 192.168.0.10 with DHCP starting from 192.168.0.30

SET-UP Guidelines for the DG843G 802.11b ADSL Router

1. **Refer to Fig.2 below, and connect the Netgear Router to your PC/laptop and the FastTrace via Cat5 patch leads (Not Crossover) to any of the RJ45 ports on the back of the Router. Ensure that all DSL micro-filters have been fitted to the BT line main socket and any active BT extension sockets to prevent interference.**

Figure 2

PC

ADSL Micro-filter

Line
DSL Phone

Data cables & RG45 Plugs

54 Mbps Wireless ADSL Firewall Router DG834G

2. Setup your PC'S LAN connection to the bellow settings.

Start->Control Panel->Network Connections->Local Area Connection->Properties->Internet Protocol (TCP/IP)

3. Click Ok (Note Windows 2000 may require a reboot).

4. Using Internet Explorer login to your routers main screen.
Internet Explorer->http://192.168.0.1->admin->password

5. Proceed to the Setup Wizard top left of the screen.
UK->English->Yes->Next

6. Enter the relevant information from you internet service provider.

Internet Connection Login->Yes->Account Name->Password->Static I.P->Subnet Mask->Gateway->DNS Servers

7. Providing you have entered in correct details you should have a valid connection to the internet, check your connection using the status screen.

Maintenance->Router Status->scroll down->Connection Status

8. Proceed to Wireless Settings, it is strongly recommended to turn off the wireless access point if it is not required. If the customer requires this feature enabled then you must select a security option like WEP 128bit or WPA and enter an encryption key of your choice.
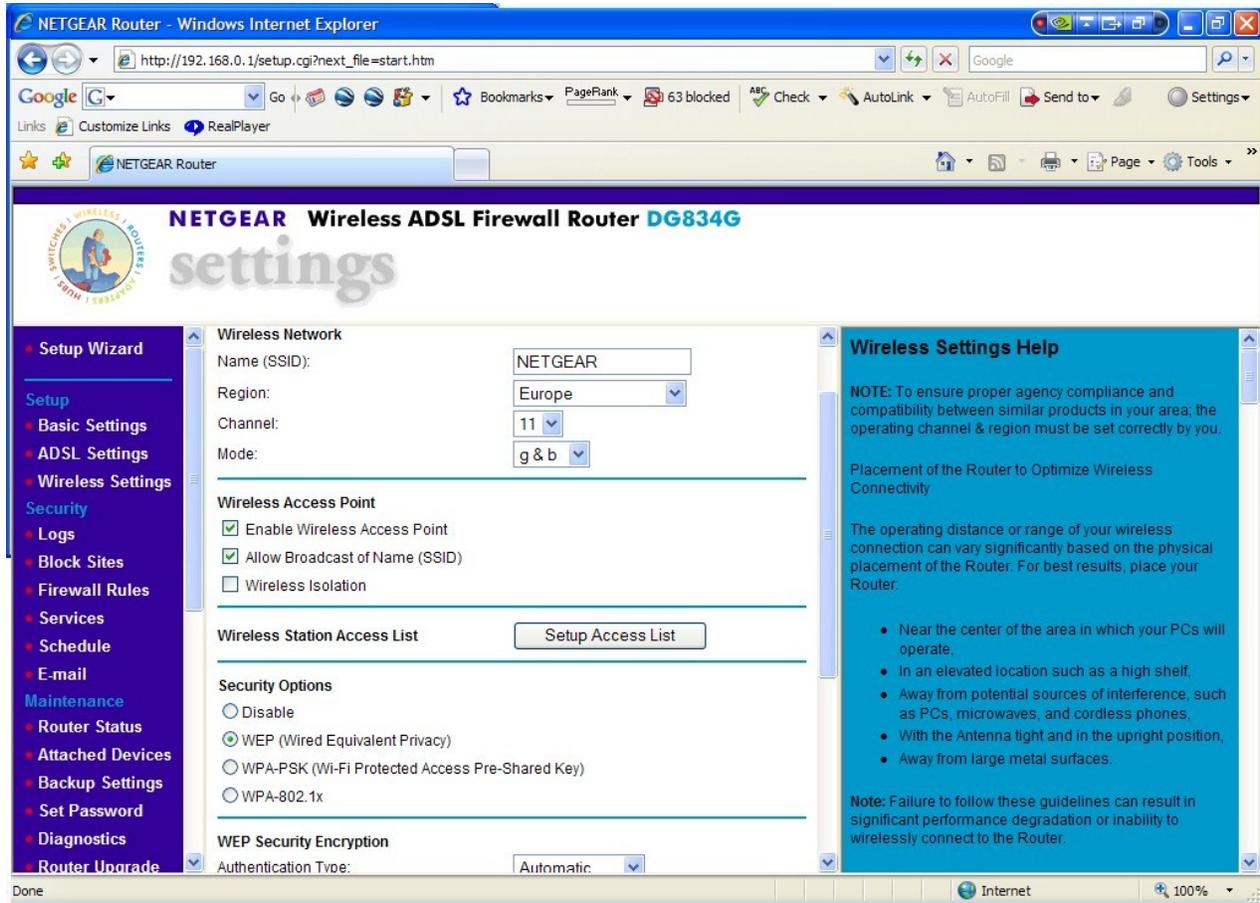
9. Proceed to LAN IP Setup and enabled the DHCP Server and set the starting IP address as 192.168.0.30 and click apply.

LAN IP Setup

LAN TCP/IP Setup

IP Address	192	.168	.0	.1
IP Subnet Mask	255	.255	.255	.0
RIP Direction		None	
RIP Version		RIP-1	

☑ Use Router as DHCP Server

Starting IP Address	192	.168	.0	.30
Ending IP Address	192	.168	.0	.254

Address Reservation

#	IP Address	Device Name	MAC Address

Add   Edit   Delete

Apply   Cancel

10.Proceed to Services, for the Adpro FastTrace to work behind the NAT firewall we need to create two additional rules using ports 15000 – 15007 TCP and 15000 – 15200 UDP follow the next two screen shots.
AdproTCP->TCP->15000->15007->Apply

AdproUDP->UDP->15000->15200->Apply

11. Once both rules are added they should be shown within the Service Table as below.

12. Now proceed to the Firewall Section.

13. **Now you need to add two new Inbound Service for the new Adpro Services we have previously created.**

Inbound Services->Add->AdproTCP(TCP:15000,15007)->Always->192.168.0.2->Any->Always->Apply

Inbound Services->Add->AdproUDP(UDP:15000,15200)->Always->192.168.0.2->Any->Always->Apply

14. **You should now have two Inbound Services identical to the below table.**

Apply the settings and proceed to the Remote Management.
Apply->Scroll Down->Remote Management

Firewall Rules

Outbound Services

	#	Enable	Service Name	Action	LAN Users	WAN Servers	Log
	Default	Yes	Any	ALLOW always	Any	Any	Never

[Add] [Edit] [Move] [Delete]

Inbound Services

	#	Enable	Service Name	Action	LAN Server IP address	WAN Users	Log
○	1	☑	AdproTCP	ALLOW always	192.168.0.2	Any	Always
○	2	☑	AdproUDP	ALLOW always	192.168.0.2	Any	Always
	Default	Yes	Any	BLOCK always	Any	Any	Never

[Add] [Edit] [Move] [Delete]

[Apply] [Cancel]

15. **Turn on the Remote Management; this will enable you to administer the router remotely, once completed proceed to the Set Password.**
   Turn on Remote Management->Everyone->8080->Apply

Remote Management

☑ Turn Remote Management On

Remote Management Address:
http://YourStaticIPAddress:8080

Allow Remote Access By:

○ Only This Computer: ☐ . ☐ . ☐ . ☐

○ IP Address Range : From ☐ . ☐ . ☐ . ☐
   To ☐ . ☐ . ☐ . ☐

◉ Everyone

Port Number: 8080

[Apply] [Cancel]

To connect to your router from a remote site load your web browser and type the following

http://YourStaticIPAddress:8080

You will be prompted for your username and password.

16.It is recommended for you to change the default password especially if you have enabled the Remote Management so unauthorised users can't change any settings.

Old Password->New Password->Repeat New Password->Apply

Set Password

Old Password	
New Password	
Repeat New Password	

Administrator login times out after idle for `5` minutes.
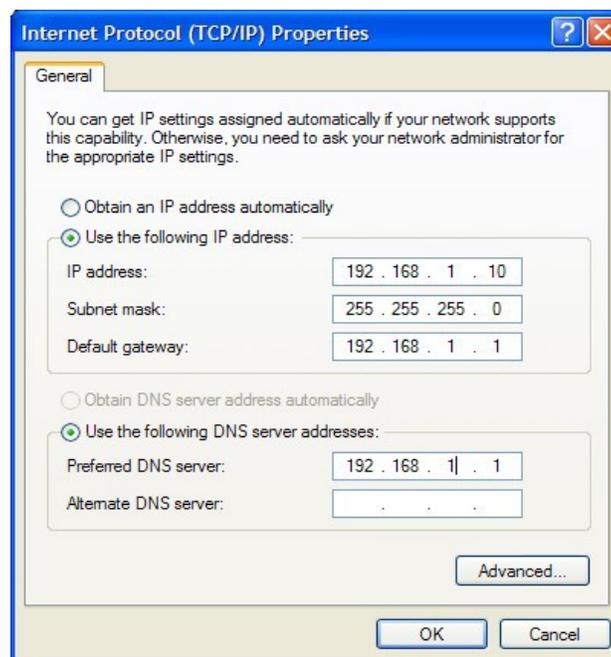
[Apply] [Cancel]

TIP
Write the new password underneath the router so your colleagues can access the router in your absence.

17.You can now Logout of your router via the Logout button located at the bottom of the screen.

18.You will now need to Setup your Adpro FastTrace to do this we need to temporarily change the PC'S LAN connection to the bellow settings.

Start->Control Panel->Network Connections->Local Area Connection->Properties->Internet Protocol (TCP/IP)

Internet Protocol (TCP/IP) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
⦿ Use the following IP address:
IP address: 192 . 168 . 1 . 10
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 1 . 1

○ Obtain DNS server address automatically
⦿ Use the following DNS server addresses:
Preferred DNS server: 192 . 168 . 1 . 1
Alternate DNS server: . . .

[Advanced...]

[OK] [Cancel]

**19.Click Ok (Note Windows 2000 may require a reboot).**

20. You Will now need to install the Video Central Lite software onto the customers PC you must temporarily allow the system to accept incoming alarms.


**21. Select Yes to receive alarms.**

<u>**Note**</u>
Once the Adpro FastTrace has been fully setup you must uninstall the software then reinstall and select No to receive incoming alarms, if this is not and the customer leaves the software running whilst the system is set no alarms will be sent to the CCTV monitoring centre. To check if this has been done go to database administration and select your site you should only have an observer password available.
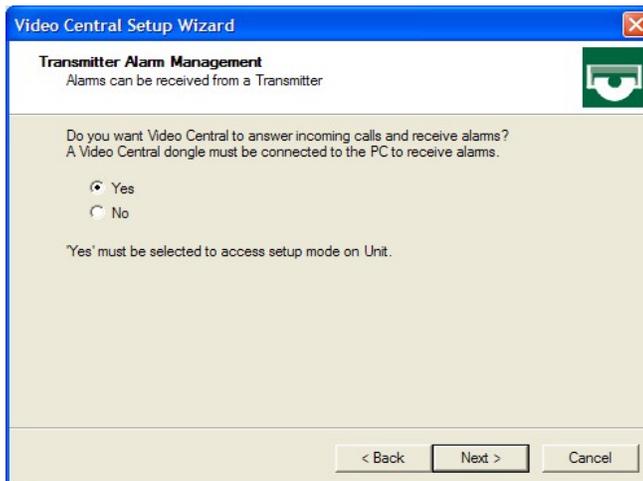
22. Tick the Network Adaptor under Network Devices.
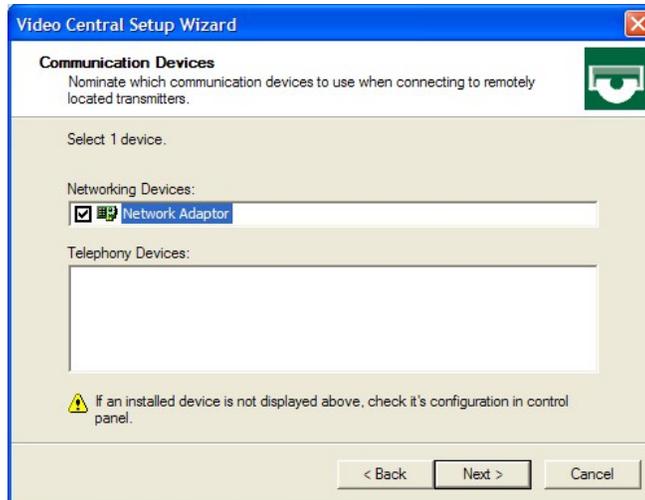
23. Accept the warning message about the required dongle as this is not required.
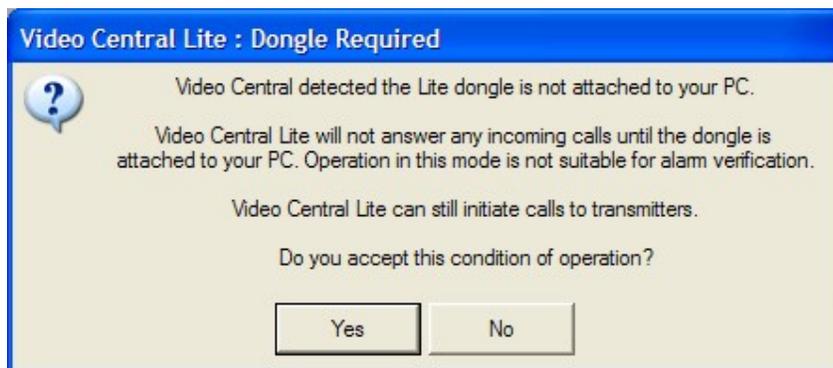
24. Once the software has fully loaded proceed to Database and then select Administration then Configure Sites, you should have the same as the below setup. Ensure that your communications has been setup for network and is set as the default connection.
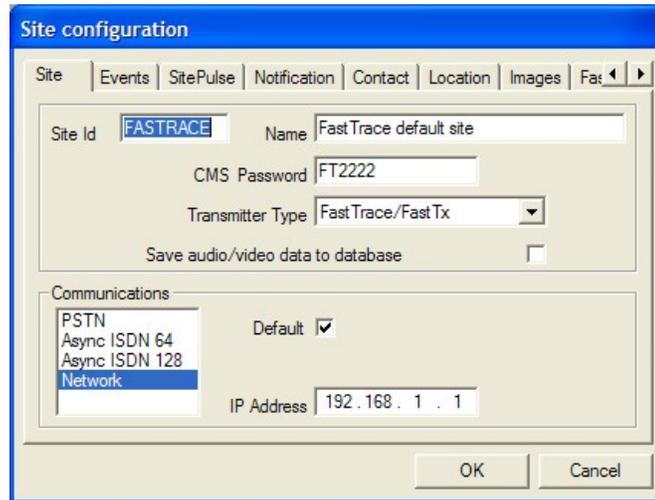

25. Click Exit and click on the connect icon top right select your default site and click Ok, once connected proceed to Connection and select the Installer Menu.

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26. Change the Site ID and relevant passwords as instructed by your CCTV monitoring centre.
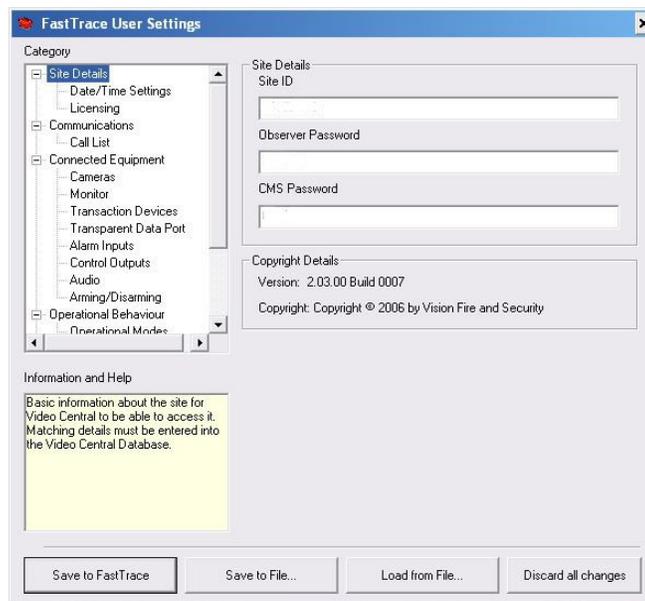
27. Proceed to Communications and select the Call List, enter the provided IP addresses of your CCTV monitoring station then click Ok.
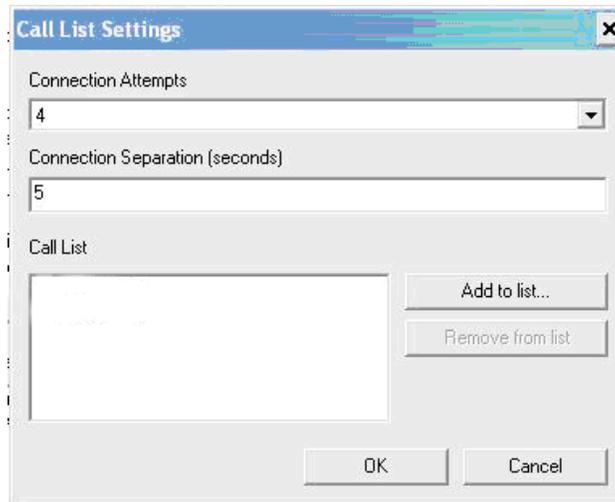

28. Proceed to the Ethernet Settings and change the IP address to 192.168.0.2, keep the Subnet Mask the same 255.255.255.0 and change the Default Gateway to 192.168.0.1 and click Ok.
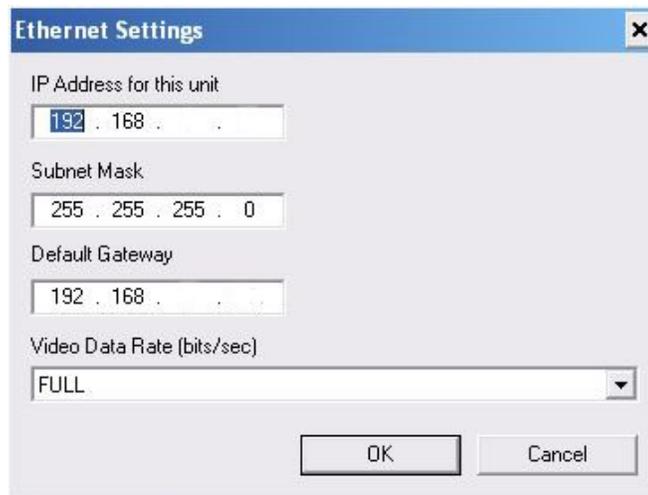

29. Save the settings to the FastTrace, the software will then be disconnected, close Video Central Lite.

30.Setup your PC'S LAN connection back to the bellow settings.
Start->Control Panel->Network Connections->Local Area Connection->Properties->Internet Protocol (TCP/IP)
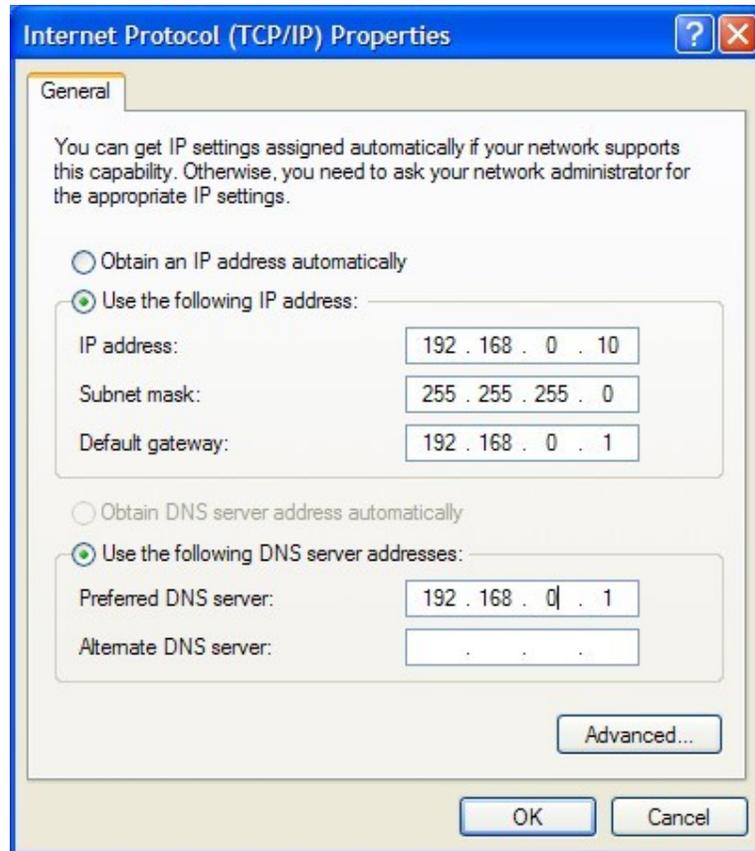
31. Launch Video Central Lite, Once the software has fully loaded proceed to Database and then select Administration then Configure Sites, you now need to change the settings for your site. Change the default IP address to 192.168.0.2 and change the Site ID and CMS password to the same as you entered into the FastTrace.
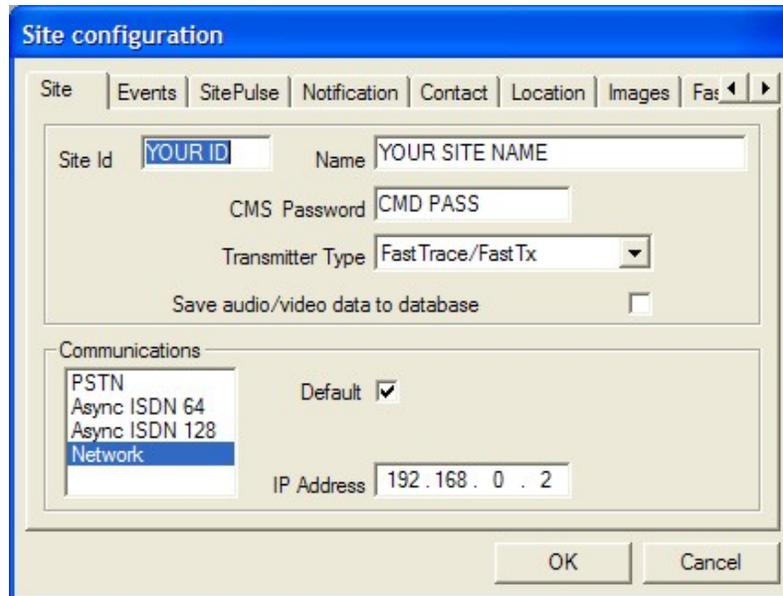
32. You can now connect to your FastTrace and continue to commission the system, once you have completed you must uninstall Video Central Lite from the customers PC and reinstall but selecting No to receive alarms as mentioned in paragraph 21.

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Revised: