

# VG-500

## Quick Setup Guide

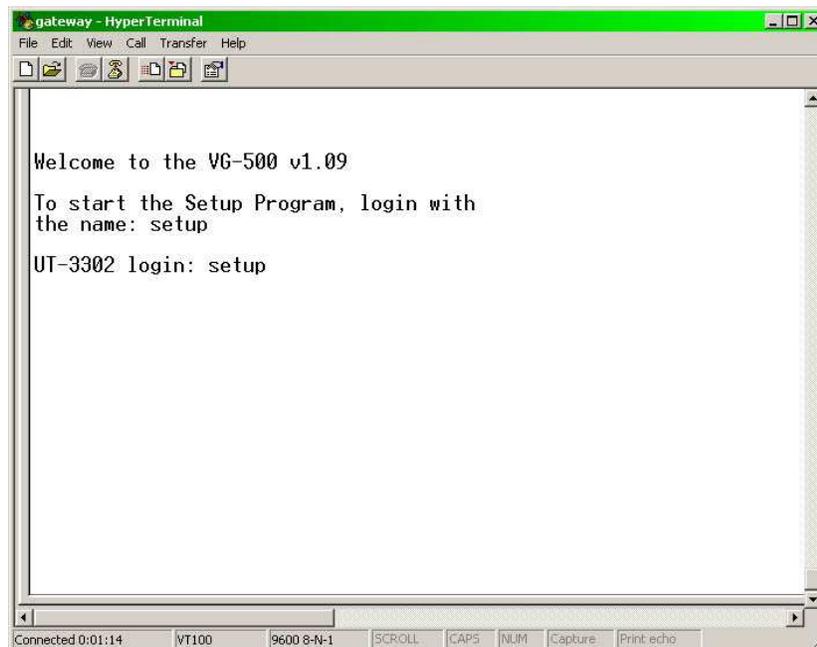
The purpose of this document is to provide simple, quick setup instructions to begin utilizing the VG-500 for simple Voice over IP applications. For more advanced features and capabilities a complete user manual is available for reference.

### Materials needed

1. PC or Laptop with available serial communications port.
2. Female to female, DB9, null modem serial cable, provided with each unit.
3. Hyper-terminal or similar communications application installed on PC/Laptop with serial port
4. PC with Internet Explorer and network patch cord for use after initial configuration

### Procedure

1. Connect provided null modem serial cable from PC to serial port on VG-500 unit
2. Launch Hyper-terminal or equivalent communication application. Configure com port (com 1 if that is the port to be used) for 9600 bps, 8 bits, no parity, no flow control.
3. Power up the VG-500, welcome screen appears on Hyper-terminal window.
4. When prompted for login enter "setup" as shown. See figure below.



5. A new menu appears displaying currently programmed IP address information for LAN 1 and prompting to restore defaults, enter "n" for no.
6. You are now prompted to set LAN1 to DHCP to acquire an address, enter "n" for no.
7. Next you are prompted to enter IP address, Mask & Gateway information for LAN 1. LAN 1 will be used for connecting VoIP devices, so subnet is not particular and should **not** be the same subnet as LAN 2 which will be connected to your production LAN / WAN environment. If there is no physical gateway for LAN1, leave this blank. See figure below.

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gateway - HyperTerminal
File Edit View Call Transfer Help
HTTPS port: 443
LAN1 Configuration:
IP: 192.168.1.190
SM: 255.255.255.0
GW:
LAN2 Configuration:
IP: 192.168.0.191
SM: 255.255.255.0
GW: 192.168.0.92

Set ALL parameters to default (y/[n])? n
Should LAN1 use DHCP to get an IP address (y/[n])? n
LAN1 IP Address is currently: 192.168.1.190
Enter new IP Address, or blank for no change:
LAN1 Subnet Mask is currently: 255.255.255.0
Enter new IP Subnet Mask, or blank for no change:
LAN1 Gateway Address is currently:
Enter new IP Subnet Mask, or blank for no change:
Will LAN1 be connected to an 802.1Q tagged VLAN trunk(y/[n])? _

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8. When prompted if LAN1 will be connected to 802.1Q VLAN trunk enter "n" for no.
9. Next you will be prompted to set LAN2 to DHCP to acquire an address, enter "n" for no.
10. Next you are prompted to enter IP address, Mask & Gateway information for LAN 2. The IP information entered in these steps should conform to the production LAN / WAN addressing scheme the device will be connecting to. Again, the subnet for LAN 2 should be different from the LAN 1 subnet to allow proper traffic routing within the device. See figure below.

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gateway - HyperTerminal
File Edit View Call Transfer Help
Enter new IP Subnet Mask, or blank for no change:
Will LAN1 be connected to an 802.1Q tagged VLAN trunk(y/[n])? n
Should LAN2 use DHCP to get an IP address (y/[n])? n
LAN2 IP Address is currently: 192.168.0.191
Enter new IP Address, or blank for no change:
LAN2 Subnet Mask is currently: 255.255.255.0
Enter new IP Subnet Mask, or blank for no change:
LAN2 Gateway Address is currently: 192.168.0.92
Enter new IP Subnet Mask, or blank for no change:

Saving Configuration. Do not cycle power...

Setup complete.

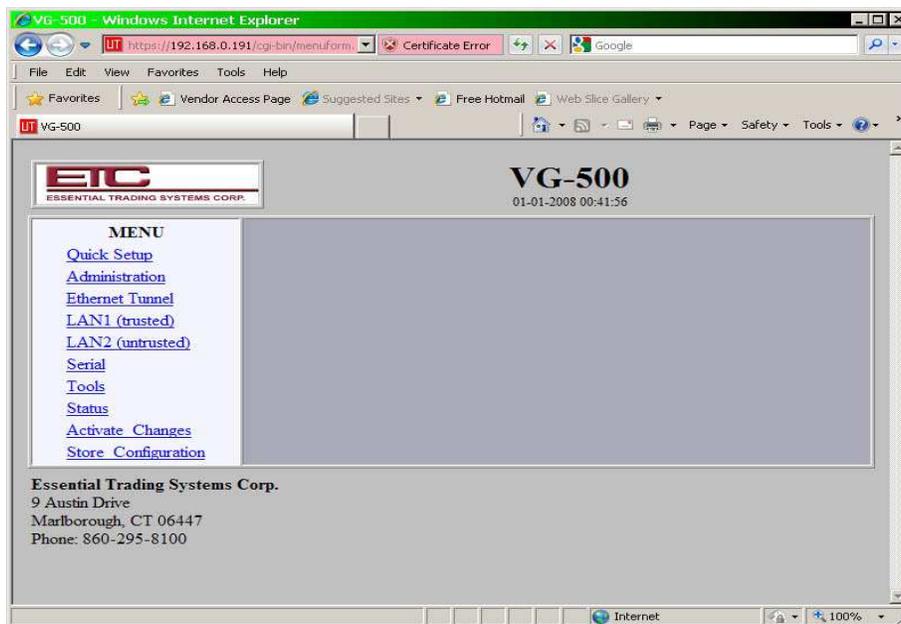
After rebooting the system, you will be able to configure
the unit from a Web Browser. Use the URL https://192.168.1.190
rebooting system.
0_

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After completing the initial setup of the device via the serial communications procedure you are able to complete the remaining setup steps via Internet explorer.

1. Connect VG-500 devices to network environment. This connection must be made to the LAN 2 port (Eth 1) of the device to the network environment.
2. Connect laptop or PC Ethernet port to any of the LAN 1 ports (Eth 2 - 5) on the device. Change the IP address of the Laptop/PC to conform with the address scheme previously configured in the serial setup procedure.
3. Open IE and in the URL bar enter ( https://\*\*\*.\*\*\*.\*\*\*.\*\*\* ) input the IP address entered for LAN 1 in the serial setup procedure.
4. The page may indicate there is a problem with websites security certificate, if so click “ Continue to this web-site”
5. You are then prompted to enter username & password. Default username is “admin” and no password.

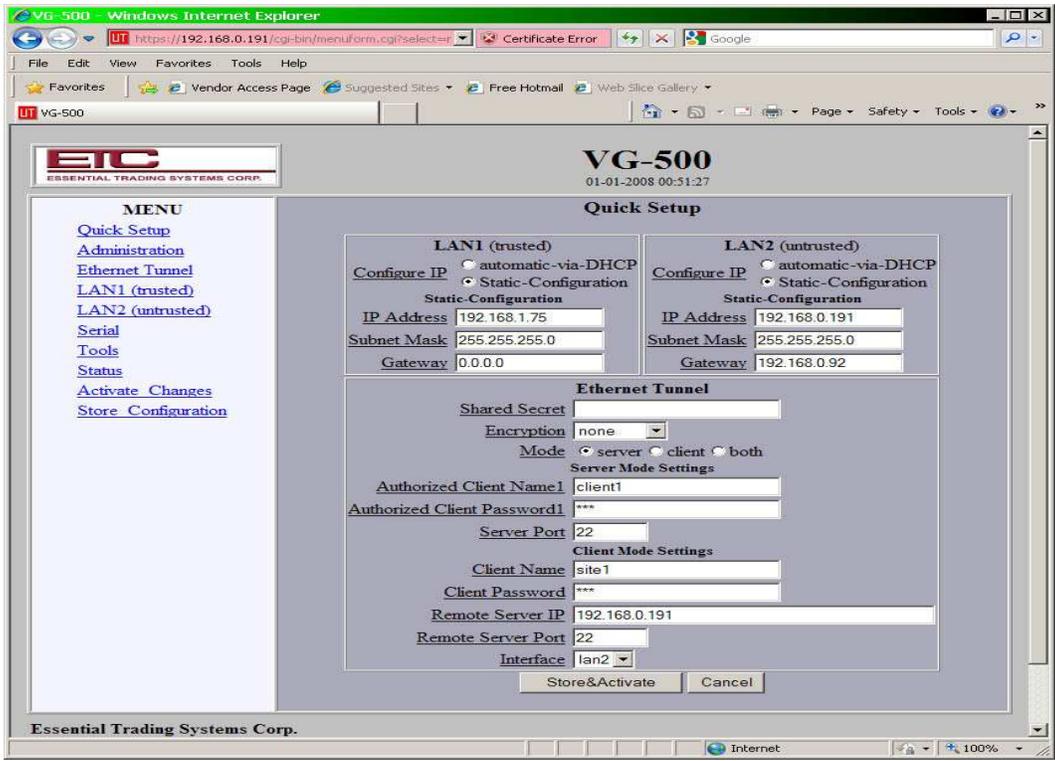
The figure below shows the device’s home screen with configuration categories to the left.



These devices are design to work as a client / server configuration. One of the devices must be chosen as the server , all other devices will be clients. The device chosen as the server also functions as a client within itself such that it passes traffic from LAN1 to LAN 2 automatically without any specific configuration to do so.

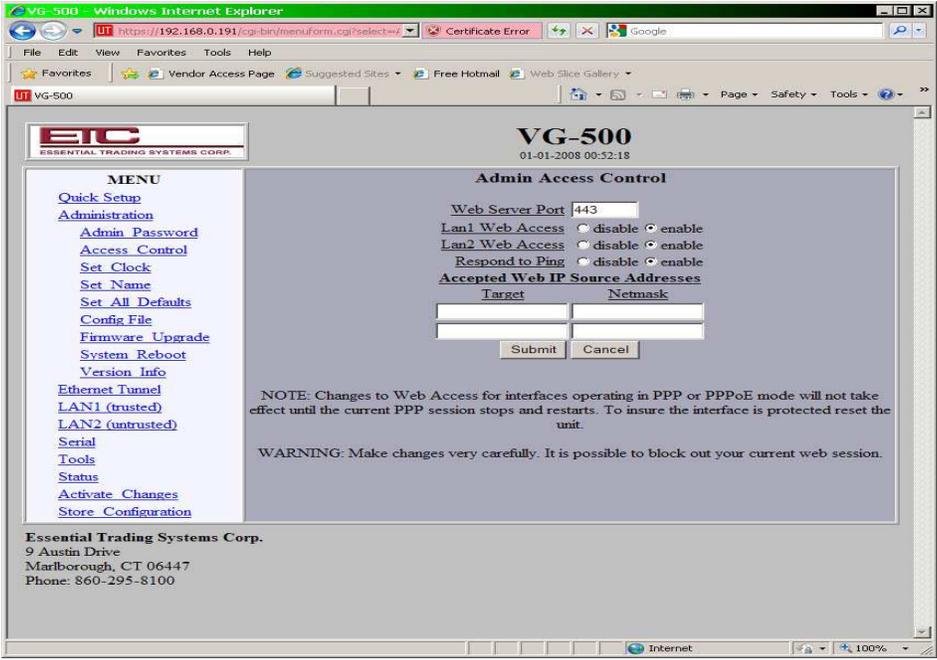
1. Click on the “Quick Setup” option shown on the left side of the browser window.
2. LAN 1 & LAN 2 IP information will displayed as well as other configuration details.
3. In the “Ethernet Tunnel” section of the web page set the mode to server if this unit is to be the server. Other wise select client.
4. If devices will be on a corporate LAN/WAN set encryption to none. If encryption is desired select encryption level and enter a pass phrase. Keep in mind this will need to be set on all VG-500’s in the system.
5. If not the server skip to step 6. Under the Server Mode Settings” enter client name and password. This step is only for the device performing the server functionality. Set server port if port other than 22 is desired.
6. Under the “Client Mode Settings” enter a name and password in the provided boxes. This is necessary for client devices to authenticate to the server device.
7. Enter the IP address for the server device. This will be the LAN 2 address established on the device setup as the server.
8. Enter remote server port if a port other than 22 is desired. Default is 22
9. Click “Store & Activate” at bottom of page when complete.

See example figure on next page.



If these devices will be installed into a private, corporate LAN /WAN environment, enabling LAN 2 web access will allow the system administrator to browse to these devices anywhere on the network utilizing the each device's LAN 2 IP address. Default is disabled. See figure below.

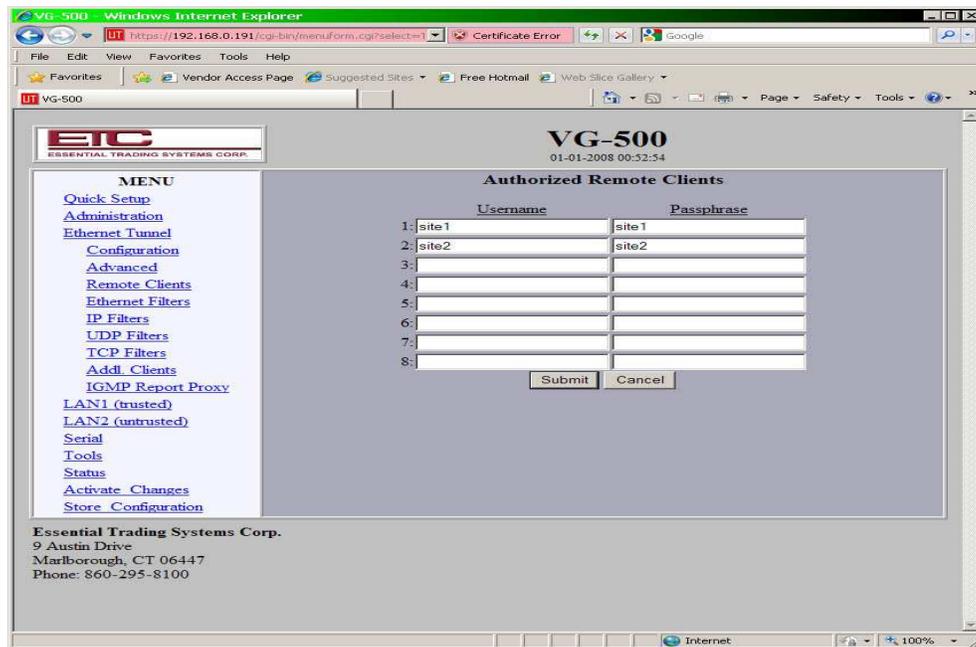
**NOTE: HTTPS:// must precede the IP address entered in the browser URL when accessing these devices.**



The following steps apply to the Server device only.

1. Click on “Ethernet Tunnel” then click on the “Remote Client” option that is revealed.
2. Enter a username & password for the remote client VG-500's which will be authenticating to this server device.
3. Click submit when finished entering remote location information.

See example figure below.



4. When finished with all configuration changes click “Activate Changes” on the left side of the web page
5. You will see the message “Changes Activated” then click “Store Configuration” from left side of webpage.
6. Click the “Store” button in the center of the page to save the configuration to memory.

You have now completed configuration of the server unit. Client units are configured as outlined previously in this document with exception to the procedure above.

Please refer to the user manual for a complete explanation of all VG-500 features and functionality.