

# Network setup for master / secondary computers – Vista Wireless

## The Precinct Atlas

### To connect or not to connect

The Precinct Atlas software will work whether or not you connect two or more computers at a precinct. Leaving them unconnected is certainly easier, especially if you do not have the technical resources, equipment, or time to set up the computers to be connected. The main advantage of connecting computers is that you will have one set of data from each precinct. All the data for the election will reside on the master computer, and the secondary computer will simply feed off and feed to the database on the master. The benefits of having one set of data include:

- 1) after the election you can upload into I-VOTERS the voter activity for regular voters once from each precinct instead of multiple times
- 2) a voter who has been processed through either the master or secondary computer cannot be processed again through either
- 3) you can get an accurate count of all the regular and provisional voters at the precinct by pressing the Ballot Count button on either the master or secondary computer, without having to add the numbers from multiple computers

## Step 1 – connecting multiple computers in a precinct

If you decide to connect the computers in a precinct, you can do so in one of the following three methods.

### Wireless connection

You will need to have a Wireless Access Point (WAP). Linksys is recommended but any brand will do. Follow the manufacturer's instructions on setting up the WAP. It is also recommended that you turn on wireless security and set a password. By doing these steps you will ensure that data is encrypted between the laptops at the precinct.

### Wired – hub connection

You will need a switch or hub with enough ports available to connect the master and secondary computers at the precinct, (for three computers at a site, you will need a 3-port hub or more for that site). Most newer switches will be sufficient for this purpose; follow the manufacture's instructions for connecting the computers.

### Wired – crossover cable connection

A crossover cable will work to connect two computers at a precinct; if you need to connect more than two computers, you will need to use one of the other methods above. Also, a crossover cable works best when the two computers are physically close to each other. Plug the ends of the crossover cable into the network ports of each computer.

## Step 2 – security settings for master and secondary computers

- 1) Click **“Start”**
- 2) Click **“Settings”**
- 3) Click **“Control Panel”**
- 4) Double-click **“Windows Firewall”**
- 5) Click **“Off (not recommended)”**
- 6) Click **“OK”**
- 7) Close the window

## Step 3 – connecting the access point

- 1) Press and hold the reset button located on the back of the AP (access point) until the power light blinks (may need a ball point pen to press the reset button, press and hold up to 15 seconds)
- 2) Plug the blue network cable into any of the four network ports located on the back of the AP
- 3) Plug the other end of the blue network cable into the network port located on the master laptop
- 4) Restart the laptop

## Step 4 – master computer setup – wireless

- 1) Open a web browser
- 2) Type in the address bar **“192.168.1.1”**
- 4) A window will pop up asking for a user name and password
- 5) Leave Username blank
- 6) After **“Password:”** type **admin**
- 7) Click **“OK”**
- 8) Linksys setup screen will pop up
- 9) Scroll down to network address server setting (DHCP)
- 10) After **DHCP Server:** Click on **“Disable”** tab
- 11) Click on **“Save Settings”**
- 12) A screen will pop up that says **“Settings are successful”** Click **“Continue”**
- 13) Click the **“Wireless tab”**
- 14) Click the **“Wireless Security tab”** located under **“Wireless tab”**
- 15) After **“Security Mode:”** click **“WPA personal”**
- 16) After **“WPA Shared Key:”** type a password that you create. The password must be between 8 and 63 characters long. You will need to remember this password for later.
- 17) Click **“Save Settings”**
- 18) A screen will pop up that says **“Settings are successful”** Click **“Continue”**
- 19) Close the web browser
- 20) Click **“Start”**
- 21) Click **“Control Panel”**
- 22) Click **“Network and Internet”**

- 23) Click **“Network and Sharing Center”**
- 24) Click **“Manage network connections”** on the left side of the screen
- 25) If you are using a wireless connection, right-click **“Wireless Network Connection”**
- 26) Click **“Properties“**
- 27) Click **“Continue”**
- 28) Uncheck all the boxes under **“This connection uses the following items:”**
- 29) Check and highlight **“Internet Protocol Version 4 (TCP/IPv4)”**
- 30) Click **“Properties”**
- 31) Click **“Use the following IP address:”**
- 32) After **“IP address:”** type **192.168.1.100**
- 33) After **“Subnet mask:”** type **255.255.255.0**
- 34) Click **“OK”**
- 35) At this point you may get a pop up box that says: The IP Address 192.168.1.100 you have entered for this network adapter is already assigned to another adapter.....Do you want to fix the problem..... **IF YOU DO NOT GET THIS POP UP BOX, PROCEED TO STEP 56**
- 36) Click **“Yes”**
- 37) Click **“Close”**
- 38) Right click on the **“Local Area Connection”**
- 39) Click **“Properties”**
- 40) Click **“Continue”**
- 41) Highlight **“Internet Protocol Version 4 (TCP/IPv4)”**
- 42) Click **“Properties”**
- 43) Click **“Obtain an IP address automatically”**
- 44) Click **“OK”**
- 45) Click **“Close”**
- 46) If you are using a wireless connection, right-click **“Wireless Network Connection”**
- 47) Click **“Properties“**
- 48) Click **“Continue”**
- 49) Uncheck all the boxes under **“This connection uses the following items:”**
- 50) Check and highlight **“Internet Protocol Version 4 (TCP/IPv4)”**
- 51) Click **“Properties”**
- 52) Click **“Use the following IP address:”**
- 53) After **“IP address:”** type **192.168.1.100**
- 54) After **“Subnet mask:”** type **255.255.255.0**
- 55) Click **“OK”**
- 56) Click **“Close”**
- 57) Close the windows
- 58) Disconnect blue cable from the laptop
- 59) Restart computer

## **Step 5 - search for wireless connections - Master**

- 1) Click **“Start”**
- 2) Click **“Connect To”**

- 3) Double click "**Linksys Wireless Network**"
- 4) If you do not see "**Linksys Wireless Network**", click the "**Refresh**" button
- 5) Do not type in a PIN code in this window
- 6) Click on "**I don't want to configure this network now**"
- 7) Security key or Passphrase window will pop up
- 8) After "**Passphrase:**" type in the password that you created earlier
- 9) Click "**Connect**"
- 10) Screen will display "Successfully connected to Linksys"
- 11) Click "**Close**"
- 12) Close all screens

## Step 6 – secondary computer setup - wireless

- 1) Click "**Start**"
- 2) Click "**Control Panel**"
- 3) Click "**Network and Internet**"
- 4) Click "**Network and Sharing Center**"
- 5) Click "**Manage network connections**" on the left side of the screen
- 6) If you are using a wireless connection, right-click "**Wireless Network Connection**"
- 7) Click "**Properties**"
- 8) Click "**Continue**"
- 9) Uncheck all the boxes under "**This connection uses the following items:**"
- 10) Check and highlight "**Internet Protocol Version 4 (TCP/IPv4)**"
- 11) Click "**Properties**"
- 12) Click "**Use the following IP address:**"
- 13) After "**IP address:**" type **192.168.1.101**
- 14) After "**Subnet mask:**" type **255.255.255.0**
- 15) Click "**OK**"
- 16) At this point you may get a pop up box that says: The IP Address 192.168.1.100 you have entered for this network adapter is already assigned to another adapter.....Do you want to fix the problem..... **IF YOU DO NOT GET THIS POP UP BOX, PROCEED TO STEP 37**
- 17) Click "**Yes**"
- 18) Click "**Close**"
- 19) Right click on the "**Local Area Connection**"
- 20) Click "**Properties**"
- 21) Click "**Continue**"
- 22) Highlight "**Internet Protocol Version 4 (TCP/IPv4)**"
- 23) Click "**Properties**"
- 24) Click "**Obtain an IP address automatically**"
- 25) Click "**OK**"
- 26) Click "**Close**"
- 27) If you are using a wireless connection, right-click "**Wireless Network Connection**"
- 28) Click "**Properties**"
- 29) Click "**Continue**"

- 30) Uncheck all the boxes under “**This connection uses the following items:**”
- 31) Check and highlight “**Internet Protocol Version 4 (TCP/IPv4)**”
- 32) Click “**Properties**”
- 33) Click “**Use the following IP address:**”
- 34) After “**IP address:**” type **192.168.1.101**
- 35) After “**Subnet mask:**” type **255.255.255.0**
- 36) Click “**OK**”
- 37) Click “**Close**”
- 38) Close the windows
- 39) Restart computer

## Step 7 – search for wireless connections - Secondary

- 1) Click “**Start**”
- 2) Click “**Connect To**”
- 3) Double click “**Linksys Wireless Network**”
- 4) If you do not see “**Linksys Wireless Network**”, click the “**Refresh**” button
- 5) Do not type in a PIN code in this window
- 6) Click on “**I don’t want to configure this network now**”
- 7) Security key or Passphrase window will pop up
- 8) After “**Passphrase:**” type in the password that you created earlier
- 9) Click “**Connect**”
- 10) Screen will display “**Successfully connected to Linksys**”
- 11) Click “**Close**”

## Step 8 – configure the secondary computer for SQL connection

- 1) On the secondary computer only, click “**Start**”
- 2) Click “**Control panel**”
- 3) Click “**System and Maintenance**”
- 4) Scroll down and click “**Administrative Tools**”
- 5) Double-click “**Data Sources (ODBC)**”
- 6) Click “**Continue**”
- 7) Click the “**System DSN**” tab
- 8) Click “**Configure**”
- 9) Under Server replace the period in “**.\SQLEXPRESS**” with **192.168.1.100**
- 10) It should read “**192.168.1.100\SQLEXPRESS**”
- 11) Click “**Next**”
- 12) If a message box comes up asking you whether to overwrite, click “**Yes**”
- 13) Click “**With SQL Server Authentication using a login ID and password . . .**”
- 14) After “**Login ID:**” type “**sa**”
- 15) After “**Password:**” type “**sa**”
- 16) Do not change anything else on this screen

- 17) Click "**Next**"
- 18) Check the box next to "**Change the default database**"
- 19) Select "**javoter**" from the drop-down list
- 20) Do not change anything else in this window
- 21) Click "**Next**"
- 22) Make sure that "**Perform translation for character data**" is checked
- 23) Click "**Finish**"
- 24) Click "**Test data source**". If the test fails, double-check your IP address settings and retest
- 25) Click "**OK**" after you have a successful test
- 26) Click "**OK**" again
- 27) Click "**OK**" again
- 28) Close the windows