

# ACCESSAGILITY

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## BridgeChecker User Guide 1.5



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# Introduction

BridgeChecker is a Windows and Mac OS utility that can automatically disable/enable wireless interfaces. Whenever your computer is connected to an Ethernet port and the link state is good, the utility can automatically turns off the IEEE 802.11 wireless network interface. This conserves IP address allocation, reduces security risks, resolves dual interface routing issues, and prolongs battery life.

## BridgeChecker v1.5 for Windows Requirements

- Program tested on Windows XP, Vista, and Windows 7 operating systems
- Requires [Microsoft .NET Framework 4](#) info and [direct download](#) from Microsoft

## Recommended Usage Scenarios

The program can be used in the following scenarios.

- disable wireless when connected to LAN
- disable wireless when docked
- disable wireless when Ethernet detected
- disable wireless when wired
- disable wireless when on LAN
- disable wireless when cable connected
- disable wireless when in docking station
- disable wireless when Ethernet plugged in
- disable WLAN when LAN connected
- enable only one network adapter at a time


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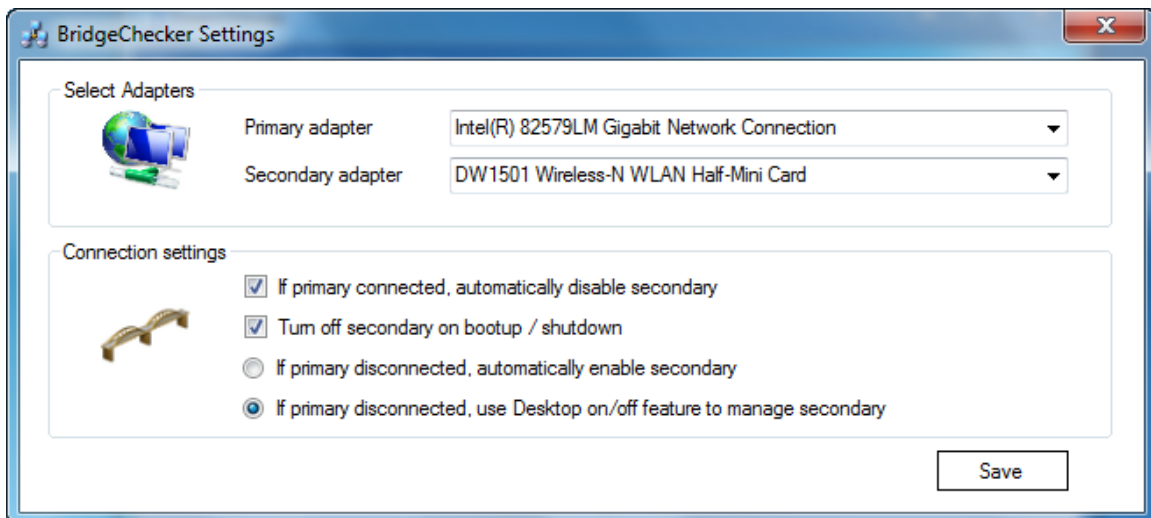
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## Default Operation Mode After Install

By default BridgeChecker installs in BridgeChecker mode with following settings.

- Automatically detect wired and wireless adapters for enabling and disabling function
- Places shortcut on desktop to allow a standard Windows user to enable/disable the wireless interface 
- Disables wireless if wired connected
- Disable wireless on bootup / shutdown
- Leaves wireless disabled even if wired is disconnected and allows user to manually enable using desktop shortcut or network connections window (if allowed by computer permissions)

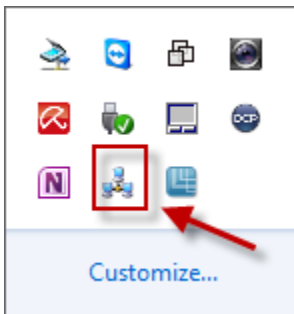


## Manage

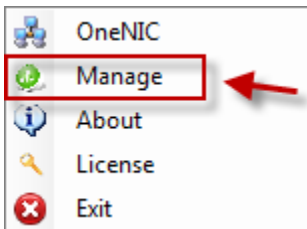
To configure custom settings for operation launch the BridgeChecker.exe from the Program Files / AccessAgility / BridgeChecker folder or Program Files (x86) / AccessAgility / BridgeChecker folder.



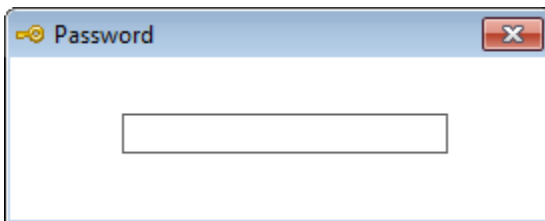
Go to the bottom right side of the screen and click the arrow



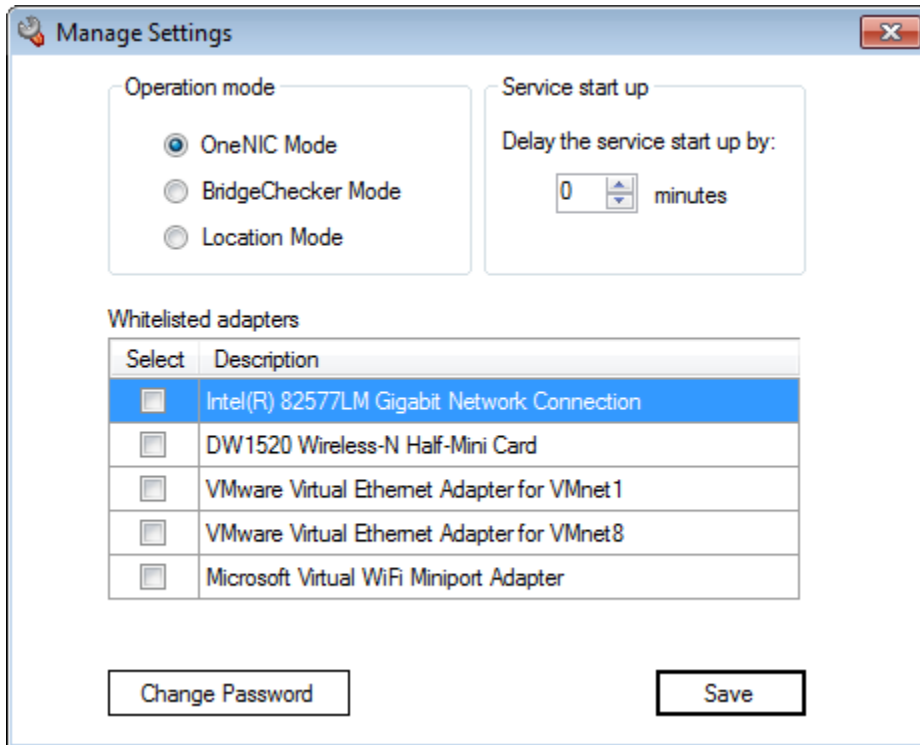
Look for the BridgeChecker icon and right click



Select the “Manage” option in order to access the settings for BridgeChecker



A prompt will appear asking for a password, unless the password was previously changed, the default password is 123.



“Operation mode” is where the user can select what mode of BridgeChecker that the user desires to run. Only one operation mode can be selected at a time.

“Service start up” is the delay for the BridgeChecker to run the background operations after the user has saved the new settings.

“Whitelisted adapters” pertains to the list of devices that the End User has access to, if an adapter is whitelisted, the End User will not have access to use that specific adapter.

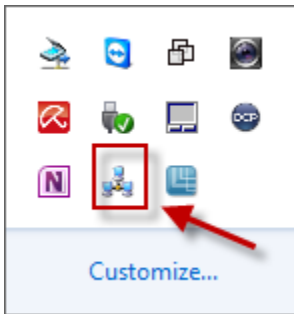
“Change Password allows the user to change the password from the default “123” to something that they user is more comfortable with using.

“Save” will make the changes permanent and will become the new default settings even if the program is restarted.

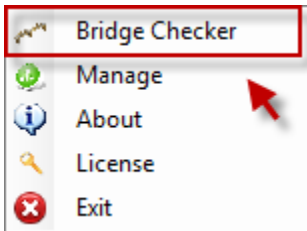
## BridgeChecker Mode



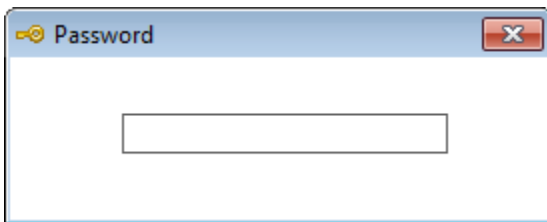
Go to the bottom right side of the screen and click the arrow



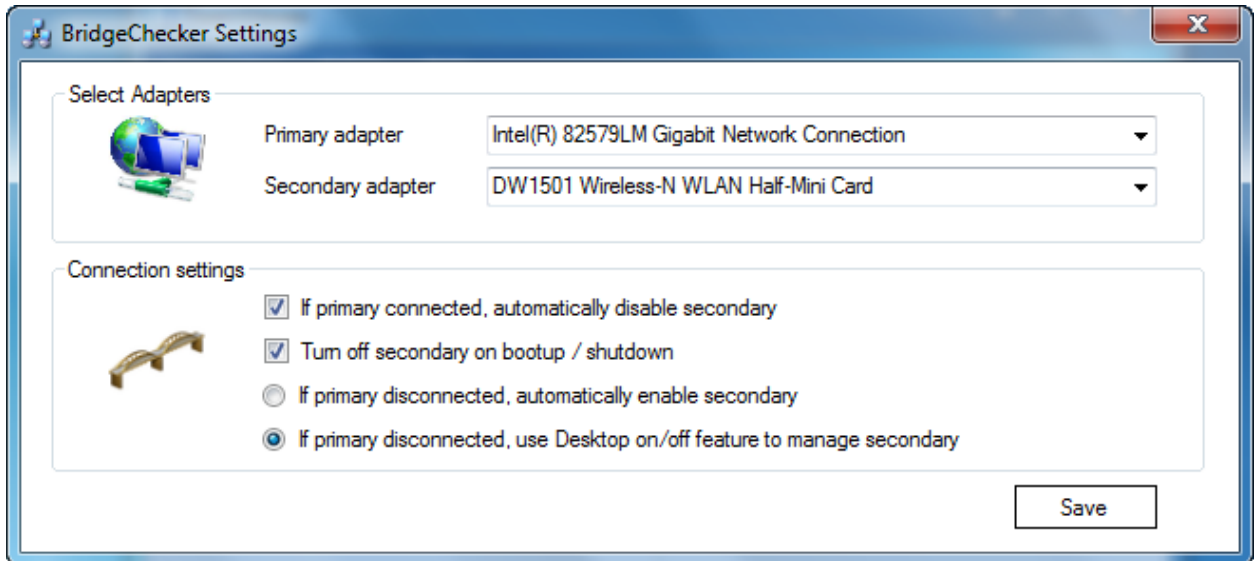
Look for the BridgeChecker icon and right click



Select the "BridgeChecker" option, if it is not an option, go to manage and select "BridgeChecker Mode"



A prompt will appear asking for a password, unless the password was previously changed, the default password is 123.



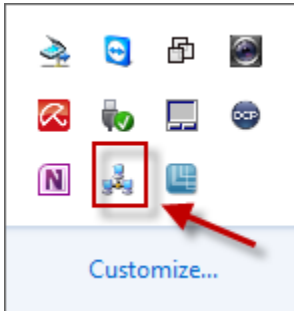
Select the primary and secondary adapter by clicking the down arrow, and choosing an adapter from the list or available adapters.

The primary adapter is the first adapter that the user wants the computer to use in order to access the network, however if the primary adapter gets disconnected from the Internet, there are a couple options for the secondary adapter. If the primary adapter is disconnected, the user can choose to either enable the secondary adapter automatically or leave the secondary adapter disabled and require the user manually enable the adapter.

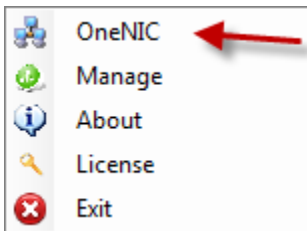
## OneNIC Mode



Go to the bottom right side of the screen and click the arrow



Look for the BridgeChecker icon and right click

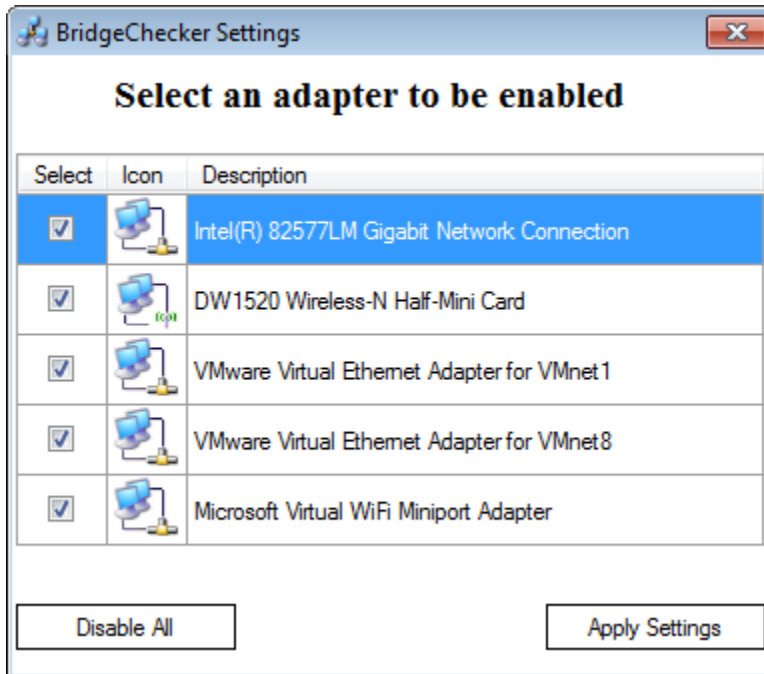


The standard should be OneNIC, if it isn't then go "Manage" section of the BridgeChecker Documentation.

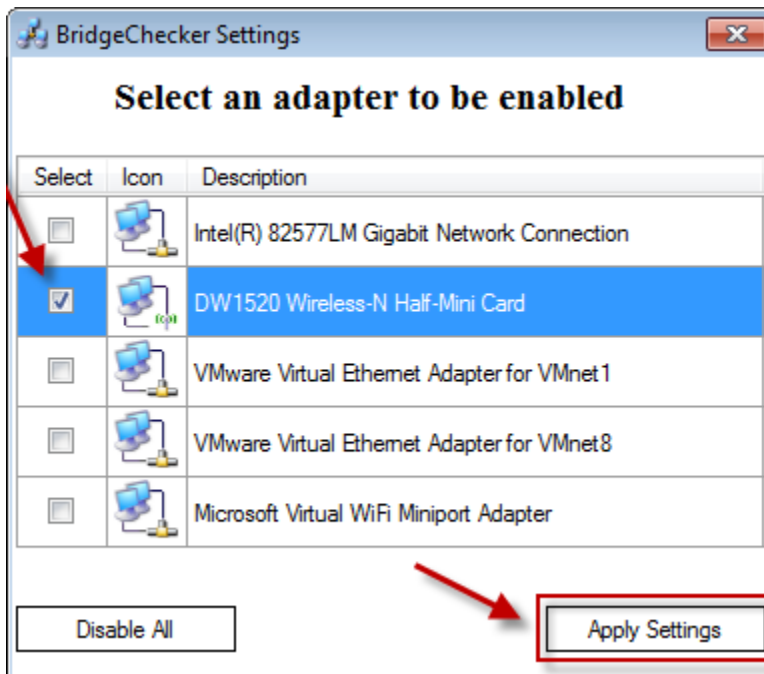
### Discovering Adapters...



Select "OneNic" option and then BridgeChecker will scan your computer for network adapter peripherals.



If all the network adapter peripherals are enabled, then all the adaptors will be listed with a check mark alongside the associated adaptor. In order to only enable one network peripheral then simply just select one of the devices by clicking the check mark box next to the appropriate adaptor.

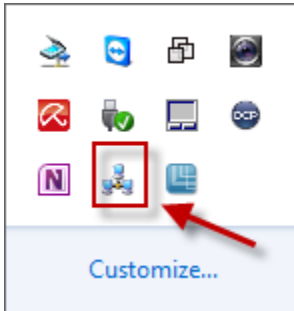


Select the adaptor that you want to be only enabled network adapter and select “Apply Settings”. This will cause all the other adaptors to become “disabled” and the adapter that was selected will remain enabled.

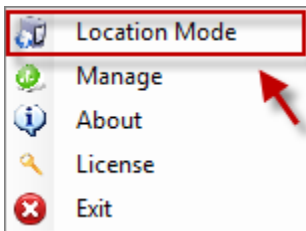
## Location Mode



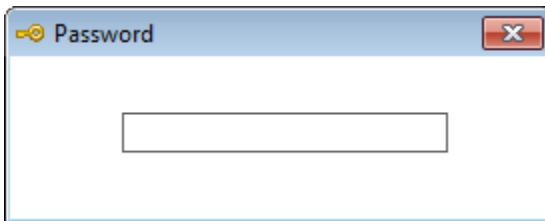
Go to the bottom right side of the screen and click the arrow



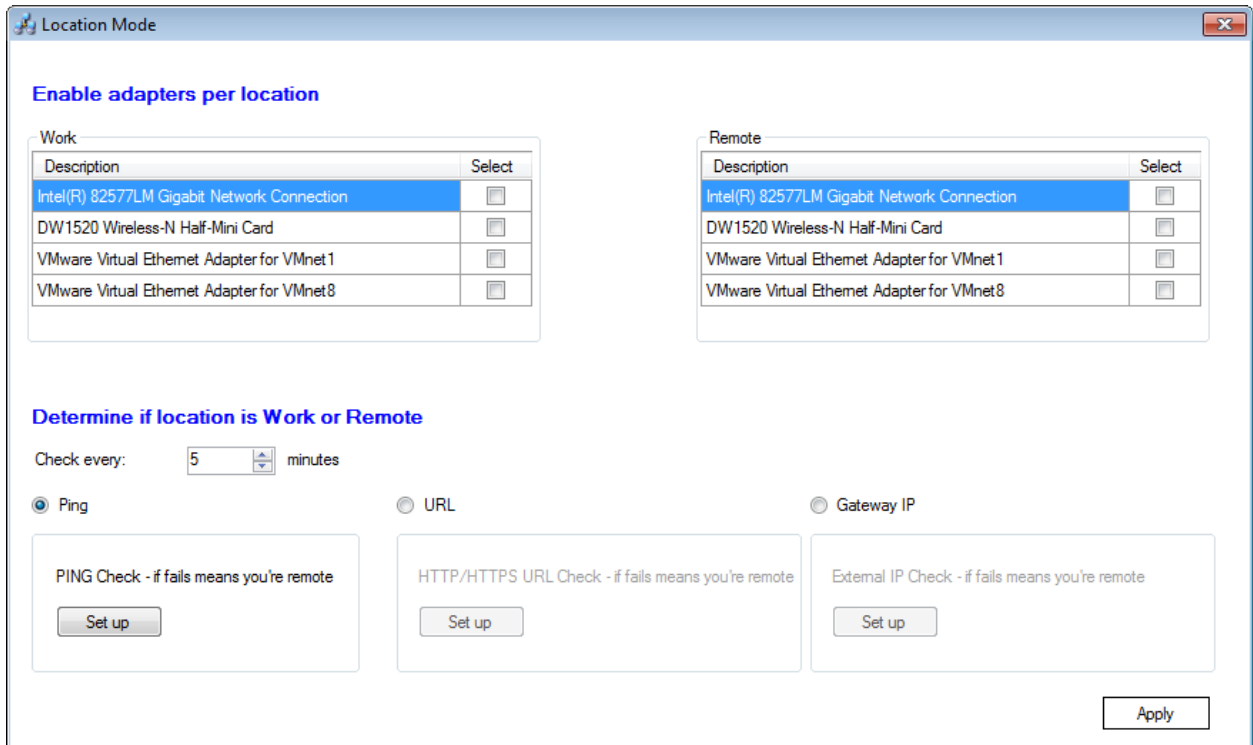
Look for the BridgeChecker icon and right click



Select the “Location Mode” option, if it is not an option, go to manage and select “Location Mode”



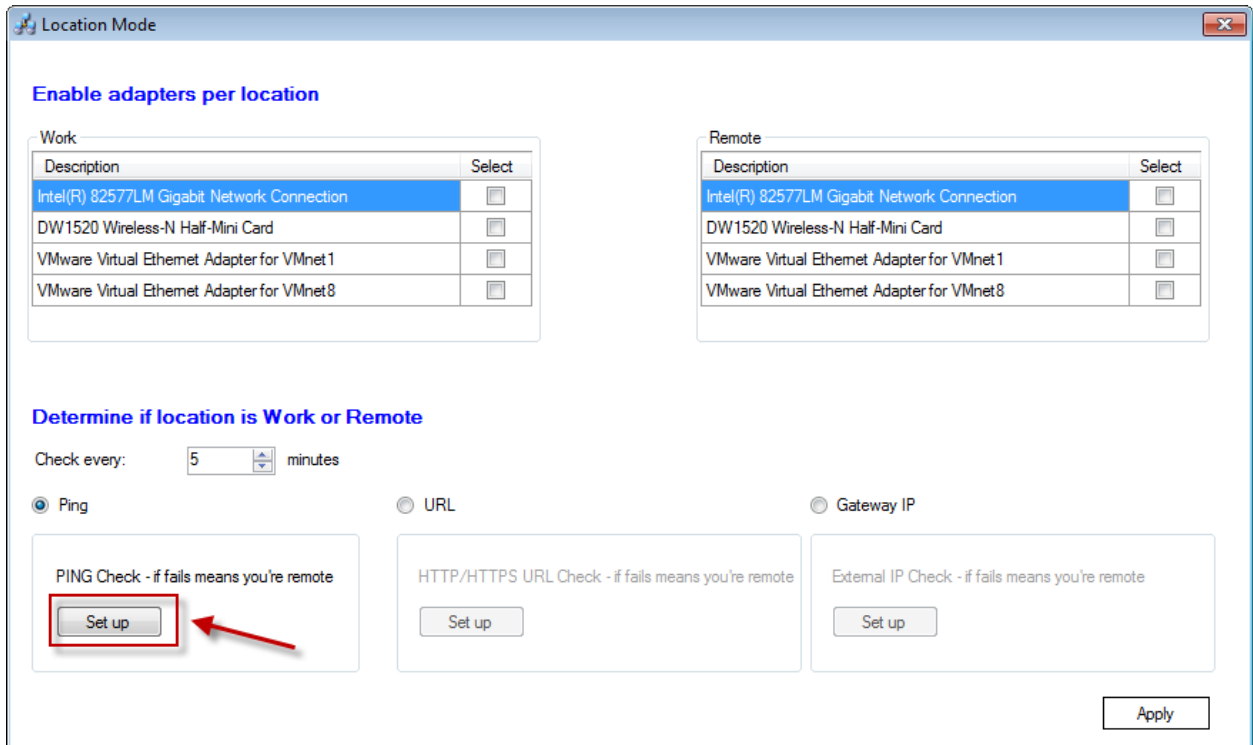
A prompt will appear asking for a password, unless the password was previously changed, the default password is 123.



Lists of the available adapters are included on both the top left and right corners of the screen.

The list on the left is associated with when the computer is connected to a work network, which peripherals should be enabled, and the list on the right is associated with the peripherals that should be enabled when the computer is in remote, or non-work, locations.

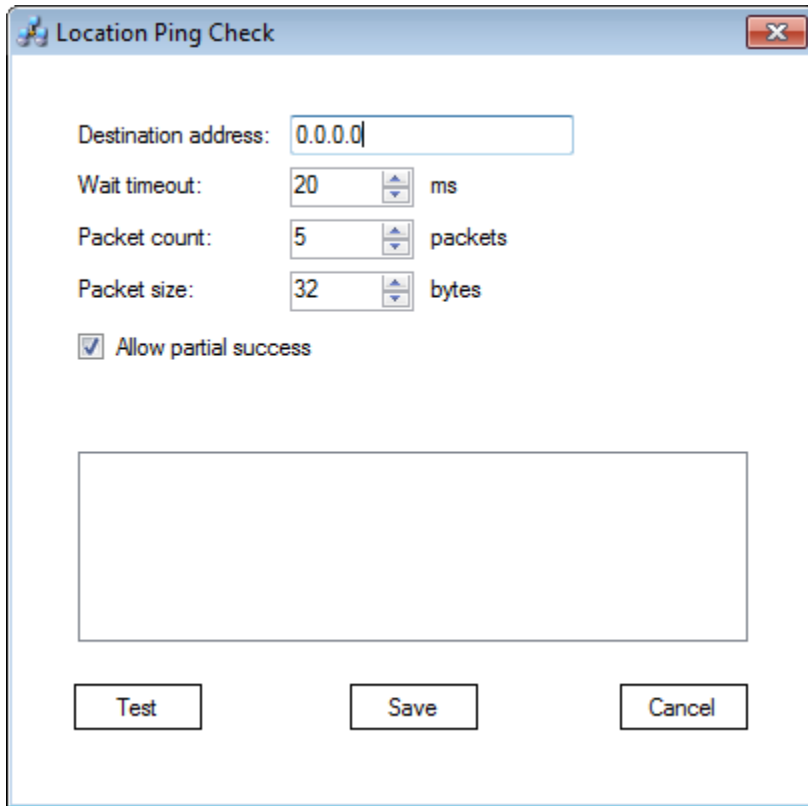
To distinguish between a work or remote location there are 3 different ways to differentiate.



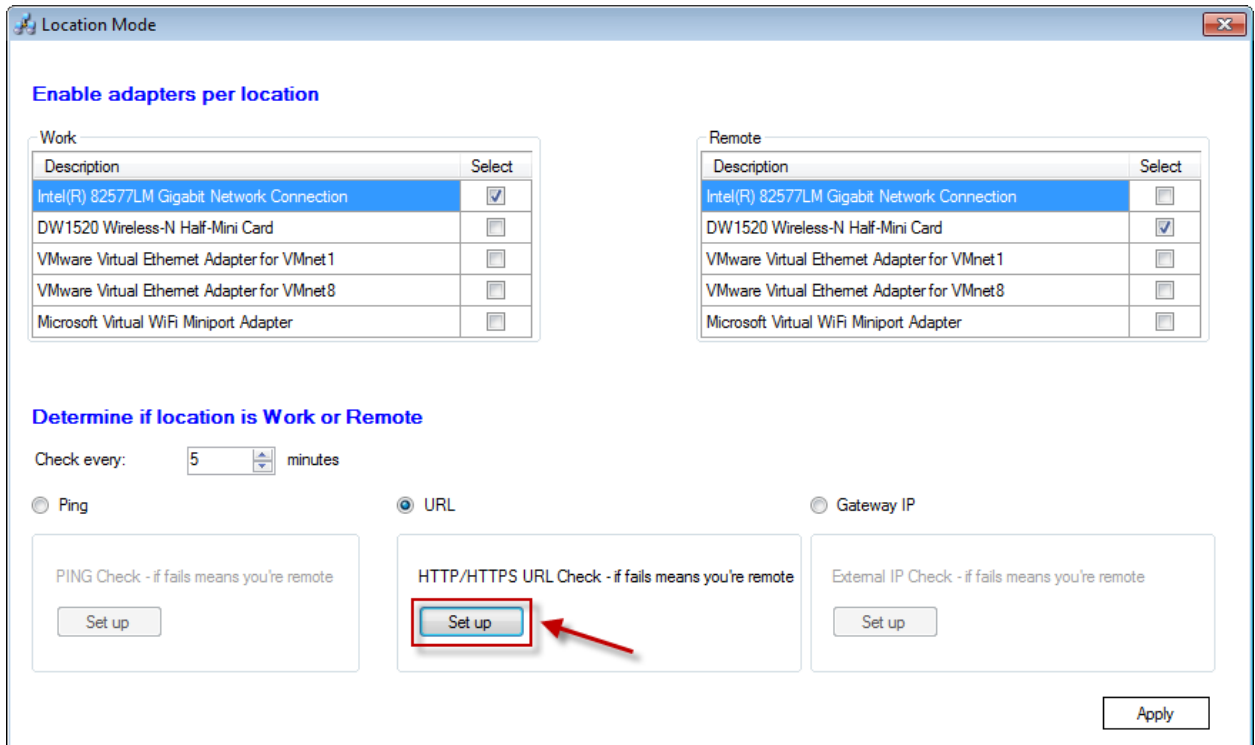
The first is a ping set up, in which the user can choose a private address to ping at work, so if the device is on the network then the ping will be successful and the

“Work” network adapters will be enabled, but if it is not successful, then the

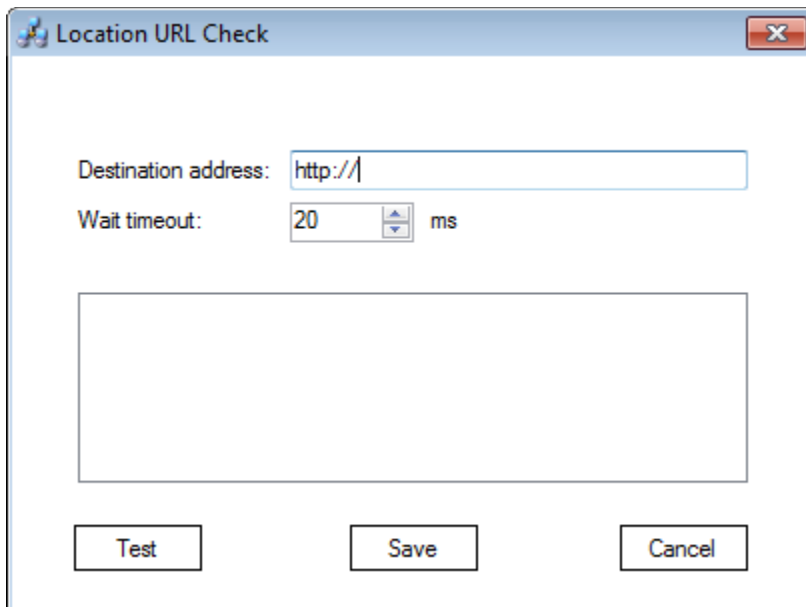
“Remote” network adapters will be enabled.



The “Location Ping Check” setup allows the user to enter the “Destination address”, the time to wait until the connection times out, the number of packets sent as well as the size of each packet to send. Then, the user selects test, and if the test is indeed successful, the user can choose “Save” and BridgeChecker will only enable the “work” adapters if this Ping is successful, if it isn’t then only the “remote” adapters will be enabled.

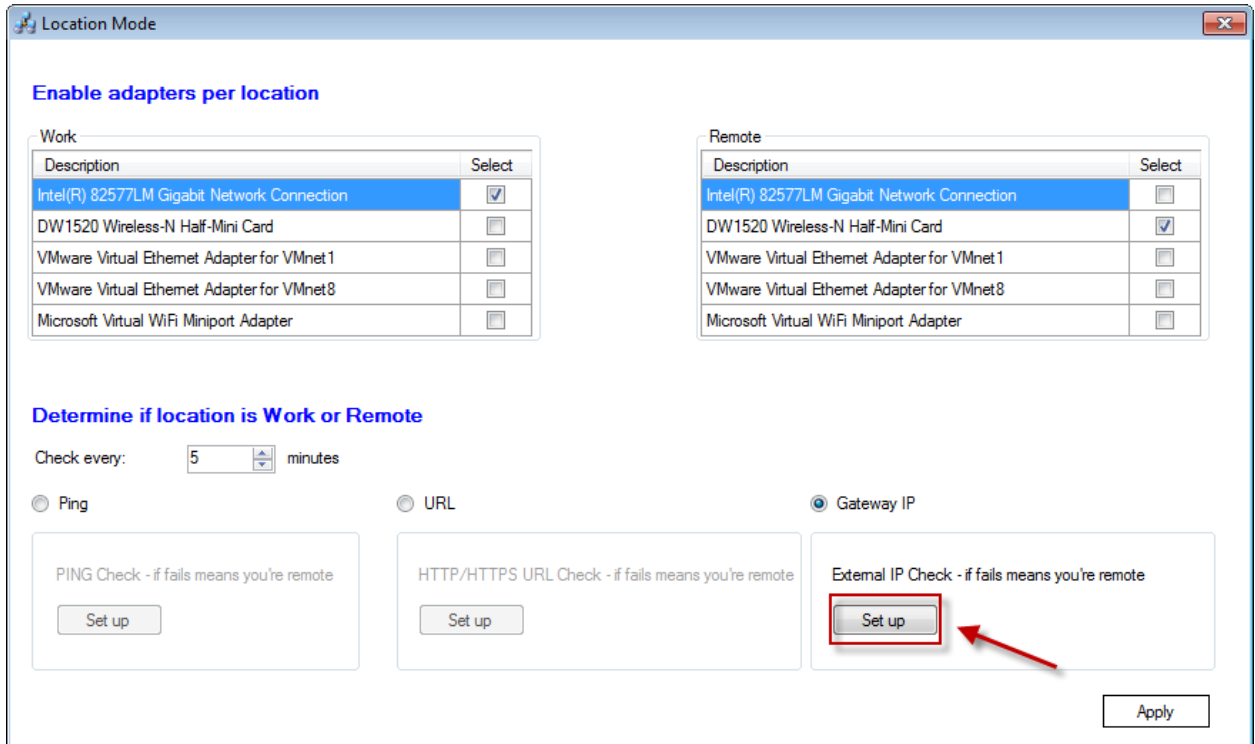


The second is a URL set up, in which the user can choose a private URL that is only accessible through the work network, so if the device is on the network then the URL can be reached and the “Work” network adapters will be enabled, but if it is not successful, then the “Remote” network adapters will be enabled.

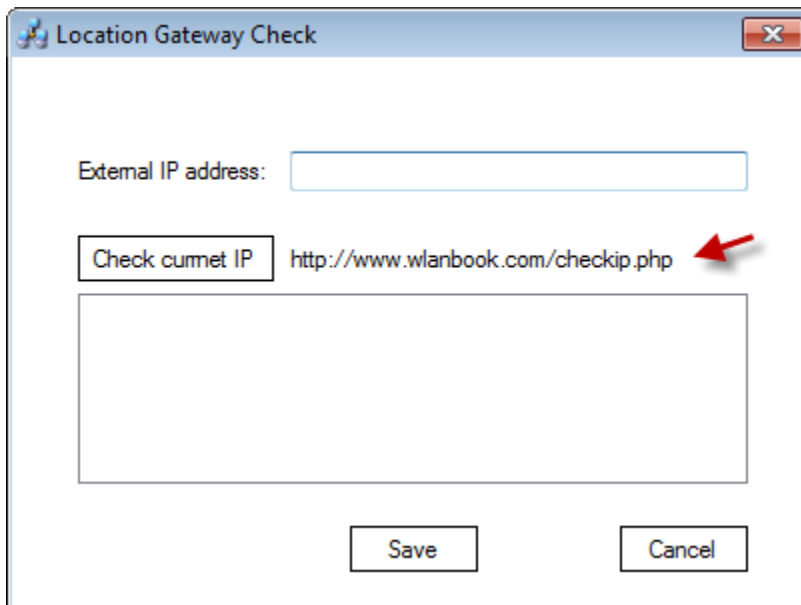


The “Location URL Check” setup allows the user to enter the “Destination address” URL as well as the time to wait until the connection times out. Then, the user selects test, and if the test is indeed successful, the user can choose “Save” and BridgeChecker will only

enable the “work” adapters if this URL is accessible, if it isn’t then only the “remote” adapters will be enabled.



The third is a Gateway IP setup, in which the user can choose a Gateway IP that is only accessible through the work network, so if the device is on the network then the device will obtain that Gateway IP and the “Work” network adapters will be enabled, but if it is not obtainable, then the “Remote” network adapters will be enabled.



The “Location Gateway Check” setup allows the user to enter the “External IP address” that the computer has at the work network. The user can find this by going to the URL: <http://www.wlanbook.com/checkip.php> and the Gateway IP given there can be pasted into the text box and the user can select “Check current IP” and a dialog will show up in the box below acknowledging if this is indeed valid. Then the user can select “Save” in order to store the settings. If the device is on the network then the device will obtain that Gateway IP and the “Work” network adapters will be enabled, but if it is not obtainable, then the “Remote” network adapters will be enabled.

**Location Mode**

**Enable adapters per location**

**Work**

Description	Select
Intel(R) 82577LM Gigabit Network Connection	<input checked="" type="checkbox"/>
DW1520 Wireless-N Half-Mini Card	<input type="checkbox"/>
VMware Virtual Ethernet Adapter for VMnet1	<input type="checkbox"/>
VMware Virtual Ethernet Adapter for VMnet8	<input type="checkbox"/>
Microsoft Virtual WiFi Miniport Adapter	<input type="checkbox"/>

**Remote**

Description	Select
Intel(R) 82577LM Gigabit Network Connection	<input type="checkbox"/>
DW1520 Wireless-N Half-Mini Card	<input checked="" type="checkbox"/>
VMware Virtual Ethernet Adapter for VMnet1	<input type="checkbox"/>
VMware Virtual Ethernet Adapter for VMnet8	<input type="checkbox"/>
Microsoft Virtual WiFi Miniport Adapter	<input type="checkbox"/>

**Determine if location is Work or Remote**

Check every:  minutes

Ping  URL  Gateway IP

PING Check - if fails means you're remote

HTTP/HTTPS URL Check - if fails means you're remote

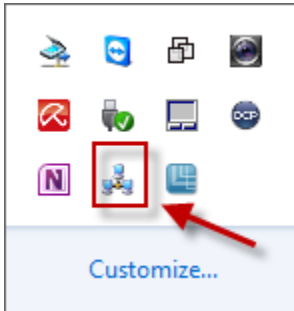
External IP Check - if fails means you're remote

To finalize these settings, the user should decide how often the Checks should be made, and then “Apply” the settings.

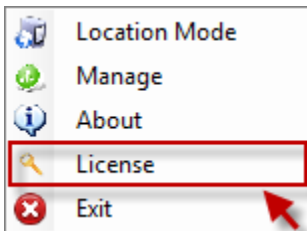
## License



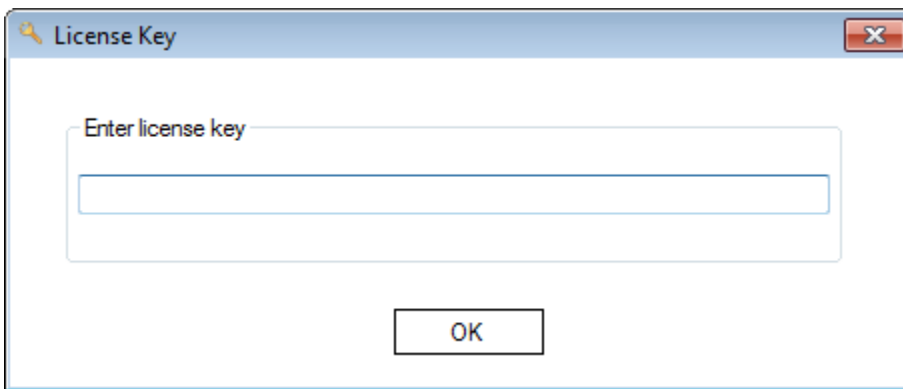
Go to the bottom right side of the screen and click the arrow



Look for the BridgeChecker icon and right click



Select the “License” option to enter the registered License for BridgeChecker.

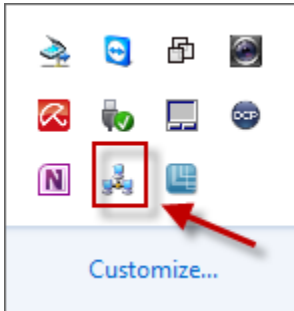


Enter the License key in the text box and select “OK” to register BridgeChecker

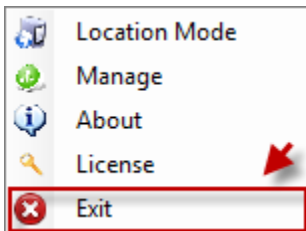
## EXIT



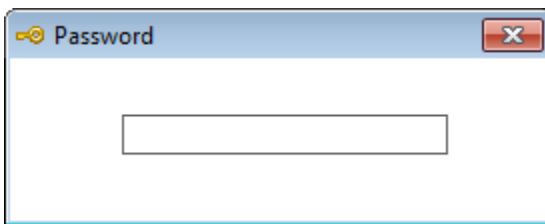
Go to the bottom right side of the screen and click the arrow



Look for the BridgeChecker icon and right click



Select the "Exit" option to close BridgeChecker.



A prompt will appear asking for a password, unless the password was previously changed, the default password is 123.

That concludes our tutorial, if you have any further questions, feel free to send us a message at [support@accessagility.com](mailto:support@accessagility.com).