**Network Testing**

Estimated number of tests: 7

Estimated time per test: 30 Mins – 1 Hour

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| Test Reference No. | Description of  Test | Expected  Outcome | Actual Outcome |
| 1. | LAN 1 Test Connectivity  Ping Homer to Bart | The computers within the network by pinging to one another. Computers should respond with valid response time and should respond back. | Passed.  The computers successfully communicated with each other through the first network. |
| 2. | LAN 2 Test Connectivity  Ping Peter to Stewie | Same as the first test. The computers within the network by pinging to one another. Computers should respond with valid response time and should respond back. | Passed.  The computers successfully communicated with each other through the second network. |
| 3. | WAN Test  Both networks running in tandem | The WAN should connect via gateway and both networks should run at the same time. | Passed.  The networks connect via gateway and both are running at the same time. |
| 4(a). | WAN Cross Connection  Ping Homer to Peter | Computers should communicate from the PC in the first network to the PC in the second network. | Failed.  Ping results returned time retired, meaning that both computers didn’t return each other. |
| 4(b). | WAN Cross Connection  Ping Homer to Peter  Using DHCP from the servers and assigning a gateway to the individual PCs | The computers now have a Gateway IP assigned to the routers and should communicate from the PC in the first network to the PC in the second network. | Passed.  The computers successfully communicate with one another through both networks. |
| 5. | Access Point to Network.  Wireless Connection | A wireless access point is added to the network to ensure connectivity to wireless devices | Passed.  The access point has been successfully connected to both networks. |
| 6. | Printer to network | A printer is added to the network and can work via the access point | Passed.  The printer successfully connects to both networks and can be used via Access Point. |