CYB 210 PROJECT ONE

Douglas Few

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Southern New Hampshire University

The following brief is made to explain the process of configuring a guest network for customers and installing and configuring two webcams for added security in the building. Screenshots will be included at the end of the brief to better demonstrate the configuration process. First, we will discuss the installation of the guest network and the configuration of said network, and then we will discuss the installation of the cameras.

All of the necessary hardware for the guest network was found in the equipment closet, so no new hardware needed to be purchased. To begin, a WRT300N router was connected to the 2960-24TT switch and the router was placed in VLAN 70. The switch then needed to be configured to support VLAN 70, so VLAN Database was opened under the configuration menu of the switch. VLAN 70 was added with the name “Guest” and VLAN 80 was added with the name “Video” for use with the cameras. Back in the router configuration menu, under the LAN tab, the IP address was set to 192.168.70.10. Under the Internet tab, the configuration was set to DHCP. Under the wireless tab, the SSID was entered as “Guest” and authentication was set to disabled. In the router GUI, the start IP address was set to 192.168.70.10 and the maximum number of users was changed to 70.

From this point, it was necessary to connect two wireless devices to the router and test for successful connection. By opening the configuration settings for the tablet and opening the Wireless0 tab, the tablet can be configured to connect to the router. In this tab, the SSID was changed to “Guest” so that the tablet would successfully locate the router. IP configuration was also set to DHCP to line up with the settings of the router. At this point, the IP address 192.168.70.12 was assigned to the tablet. By following the same steps for the smartphone, the IP address 192.168.70.11 will be assigned for the smartphone. The last step to take is to test and verify for a successful connection. By going to the desktop tab for both devices and opening the command prompt, the command ‘ping 192.168.70.10’ can be entered. This will cause the device to send small messages to the server, and successfully receiving responses indicates a good connection.

The final installation that needed to be made was the webcams in the lobby and by the door. These were installed as an extra layer of security in the building. Once both webcams were installed, they were both connected to the switch to bring them onto the network.

Screenshots

