Instructions to Run Cognitive Engine

**10 minutes before the event:**

1. On the Windows Host, Ensure ViaSat and Newtec modems are configured for 1 Mbaud.
2. Synchronize time with NTP server
   1. On the Windows host, run the batch file at “Desktop\SW for Week 8\ARP and Time Sync.bat
   2. On the Ubuntu guest, use the right tab in Terminal and execute the following command  
      sudo VBoxService –timesync-set-start

*NOTE*: sudo passwd is password

1. On the Windows host, start Newtec logging by running the executable at “Desktop\BinaryLogging\_Exp42\viasat\_transport\_bypass.exe”
2. On the Ubuntu host, use the left tab in Terminal and execute the following command:  
   sudo ./RLNNCognitiveEngineTester\_v2
   1. Run this command about 5 minutes before start of the event so that you won’t have to enter the sudo password at the actual start of the event.
   2. Once the cognitive engine starts running, you can just CTRL-C out of the program.

**Start of the event (after the ViaSat modem locks to the carrier):**

1. On the Ubuntu guest, start the cognitive engine by executing the following command:  
   sudo ./RLNNCognitiveEngineTester\_v2
2. Let the cognitive engine run until the end of the event.

**End of the event:**

1. In the Terminal tab running the cognitive engine, type q and hit ENTER. This will quit out of the cognitive engine cleanly.
2. Open up the Files explorer and navigate to “Desktop\rlnn4\”. Select and copy “logging.txt” AND all of the files “save\_test1\_\*.txt”
3. Paste these files into their corresponding event folder “sf\_Exp42\flight\_testing\_logs\2017-05-08\{11\_event04\_1338-1344, 12\_event05\_1514-1522}\
4. In the Windows host, open the terminal running the Newtec logging and quit by pressing CTRL-C
5. Copy the log file from “Desktop\BinaryLogging\_Exp42” to “Desktop\Exp42\flight\_testing\_logs\2017-05-08\{11\_event04\_1338-1344, 12\_event05\_1514-1522}\”

ViaSat

Usr: admin

Pass: adminuser

Newtec

User: expert

Pass: expertexpert