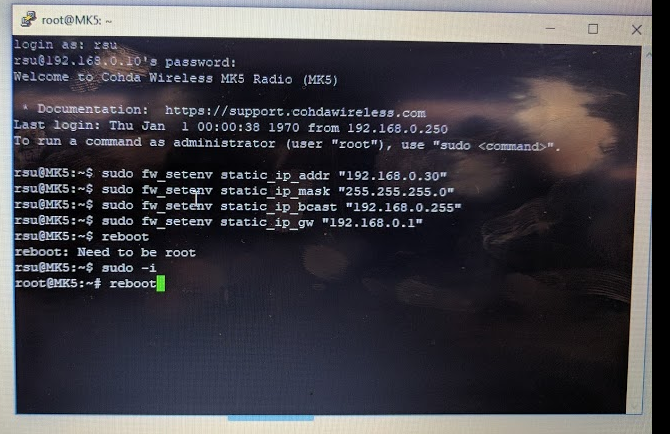
Validation Laboratory Testing

Week of February 19, 2018

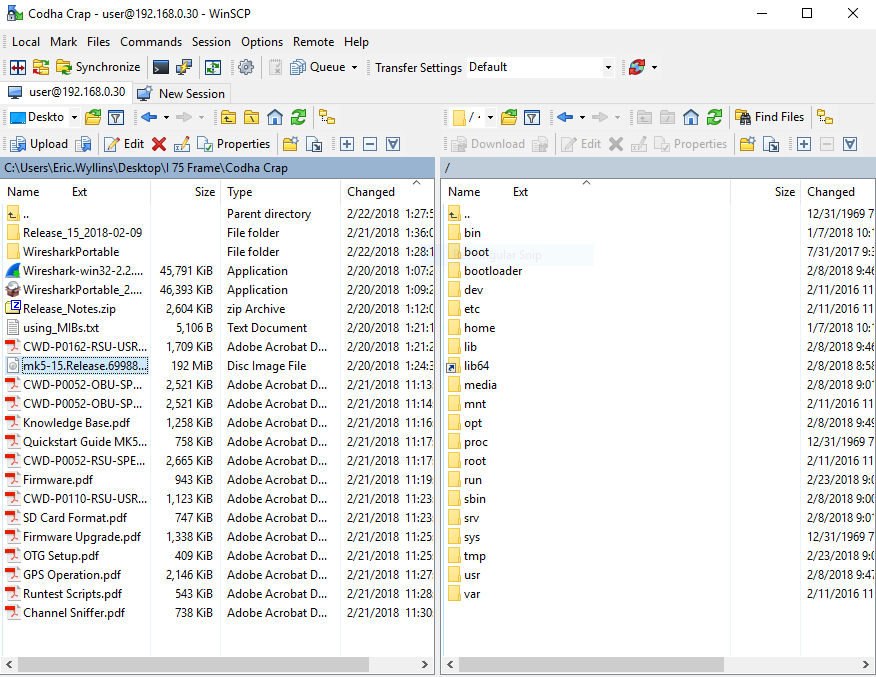
**Configuration/Integration Of Units**

Codha RSU/OBU

1. Reached out to Codha support for user manuals
2. Downloaded all manuals including the newest firmware
3. Both Units are shipped without a Static IP and a DHCP Server is needed
4. Configured IP for RSU: 192.168.0.30
5. Configured IP for OBU:192.168.0.40
6. When configuring IP’s for both units an SSH Session is required



1. Ensured all antennas on both the RSU and OBU were plugged in
2. Cohda recommended we upgrade the firmware in the RSU and OBU, using an SSH Session, to mk5-15.Release.69988-typical-RSU.
3. Using WinSCP we dropped the img file in the appropriate folder



1. Ran the following command in a SSH Session:

# fim -u /home/user/mk5-15.Release.69988.img

1. Verified the image was installed and marked with a “P” (pending):

# fim -l

1. Ran the “reboot” command to reboot unit:

# reboot

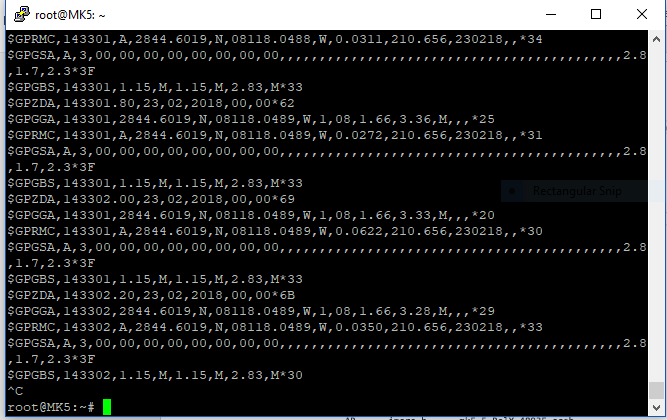
1. Verified the upgrade copy process was successful:

# fim -l

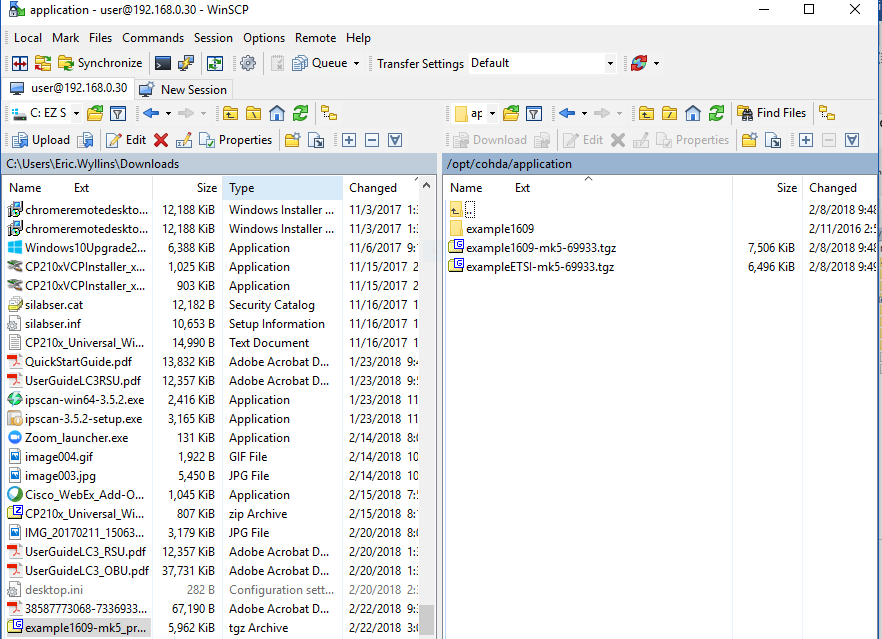


1. Verified both units were receiving GPS Signal with the following command:

# gpspipe -r



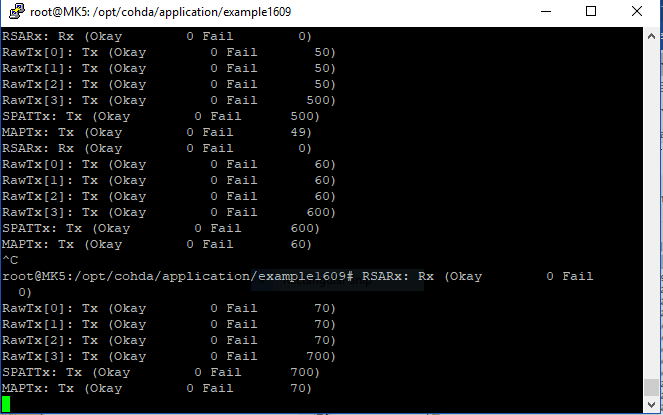
1. Downloaded the latest version of the application for the RSU and OBU and using WINSCP dropped it into the appropriate folder:



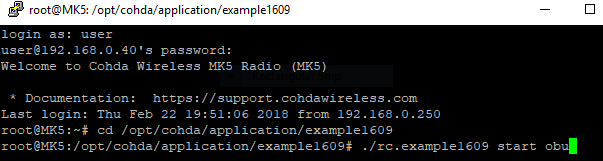
1. Once the package was transferred, opened an SSH Session and run the following commands to start the RSU Application:



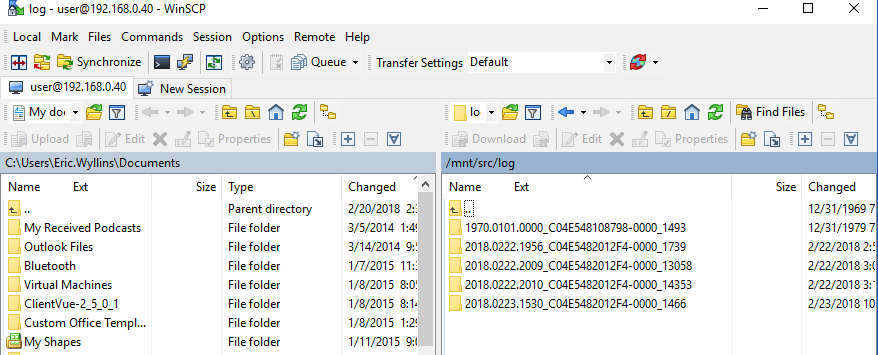
1. The following shows the SPaT and MAP messages being Transmitted and received by the RSU:



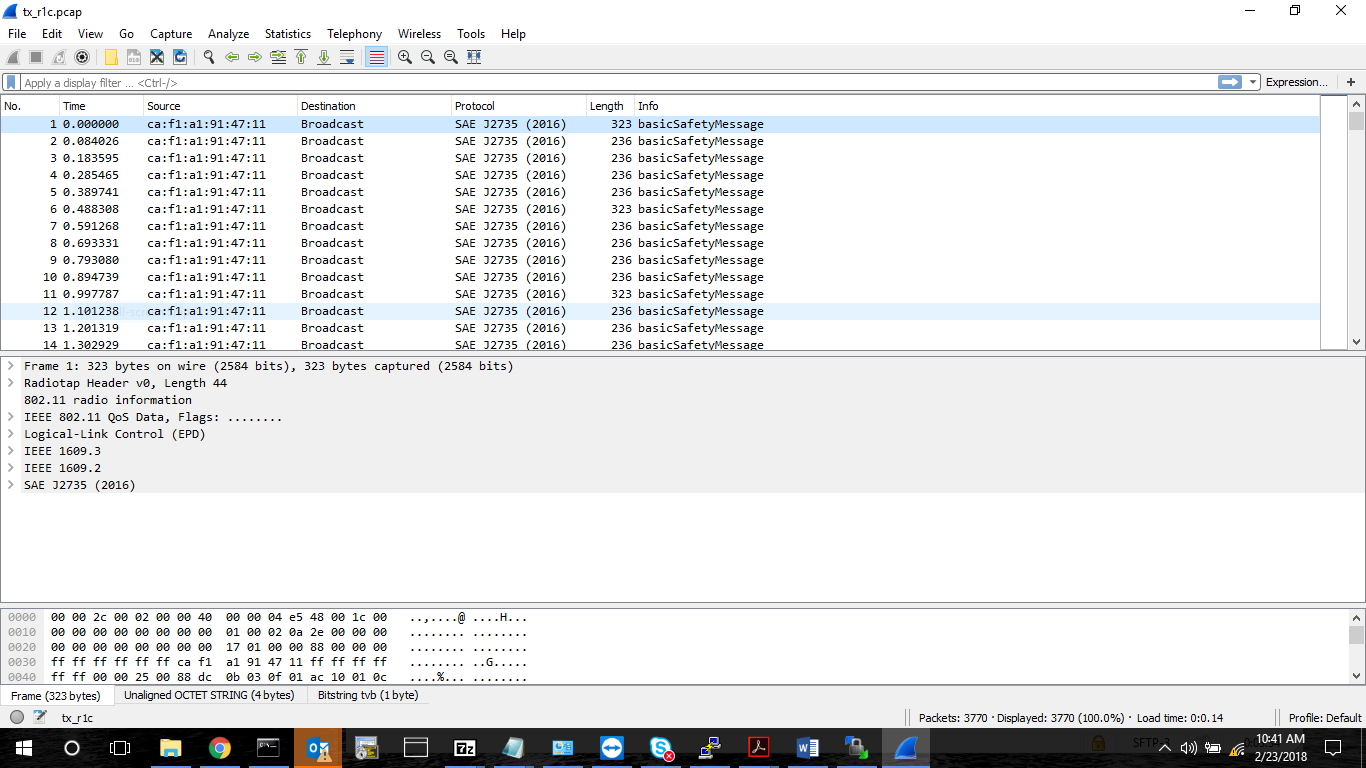
1. The following command should be used to start the application on the OBU:



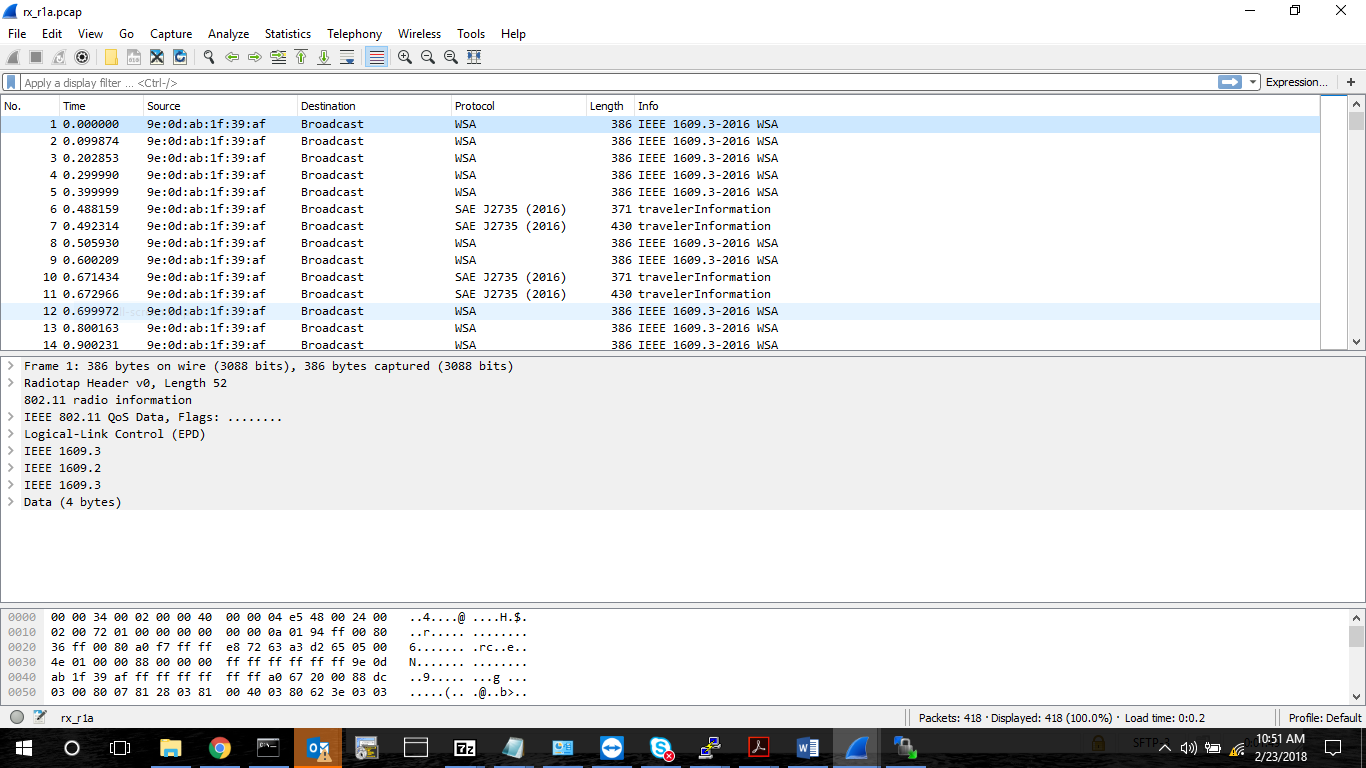
1. A log directory will be created in “/mnt/ubi/log/current” that contains the transmit and receive packets as well as the GPS information and this can be viewed from the WINSCP Application



1. Open the latest log and right click on tx\_r1c.pcap and select open, wireshark will display the BSM packets that were broadcasted:



1. Open the latest log and right click on rx\_r1a.pcap and select open, wireshark will display the TIM packets that were received from the RSU:



1. Open the latest log and right click on rx\_r1c.pcap and select open, wireshark will display the SPaT packets that were received from the RSU:

