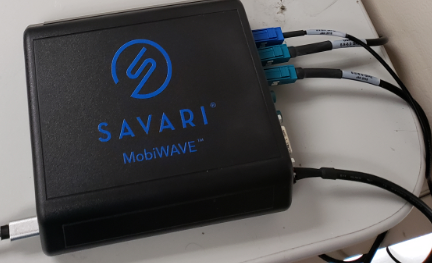
**Date: 6/27/18, 9:00am**

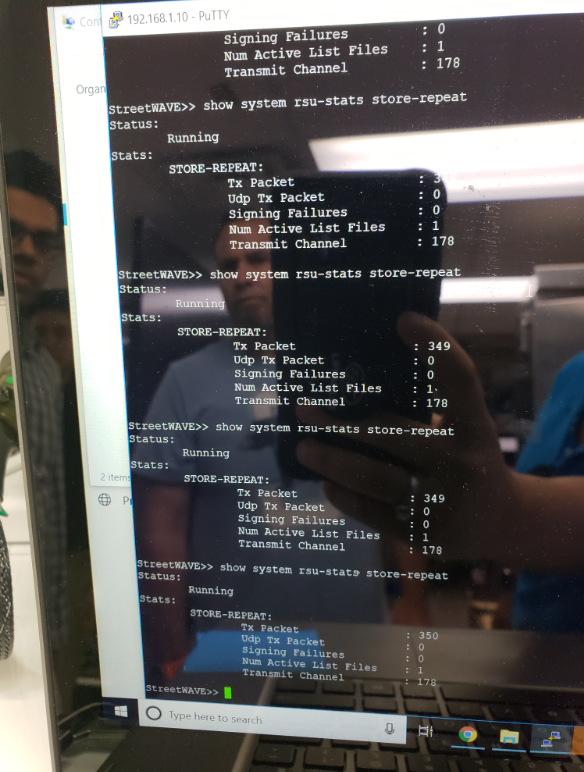
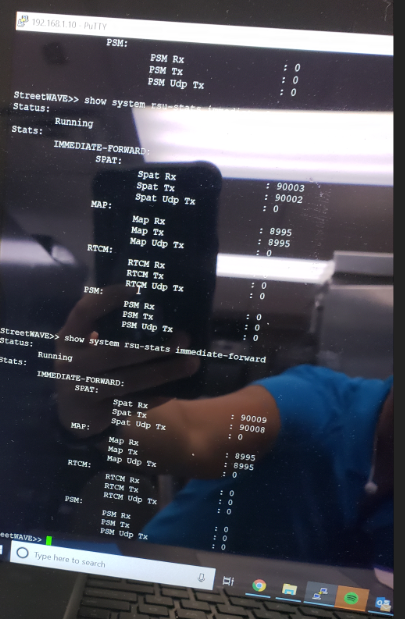
**Location: Seminole County LAB testing ONLY (since no TSP, EVP for field testing)   
Vendor: Savari  
Test completed: Lab**

* Lab testing was done on 6/27/18 /with Savari at the Seminole County Signals Lab



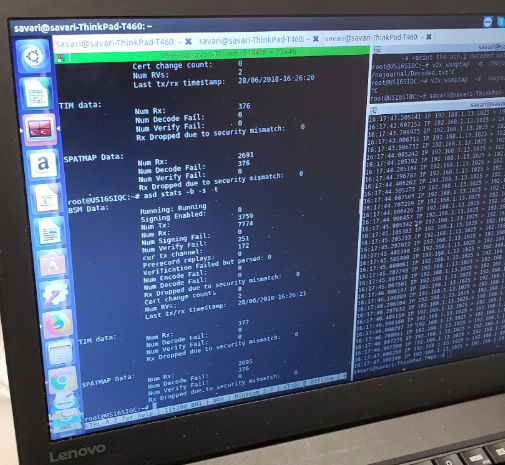


* + Testing was to verify communication with various controllers as well as to test for transmittal of SPaT, MAP, and TIM.
    - Before Savari’s visit we were informed that this vendor is unable to perform TSP and EVP. Their development team is still working on TSP and EVP. Based on this, no field testing was performed, agreed upon by vendor as testing could be performed in the lab setting for SPaT, MAP and TIM
  + Savari’s GUI is exclusive to the V2V
  + MAP, TIM, BSMs are displayed by way of packets
* Econolite’s representative, partners with Savari, was present at the lab as well to assist Savari as needed
* Following are the results of testing with the various controllers:
  + Siemens M60 – SPaT, MAP, TIM successful

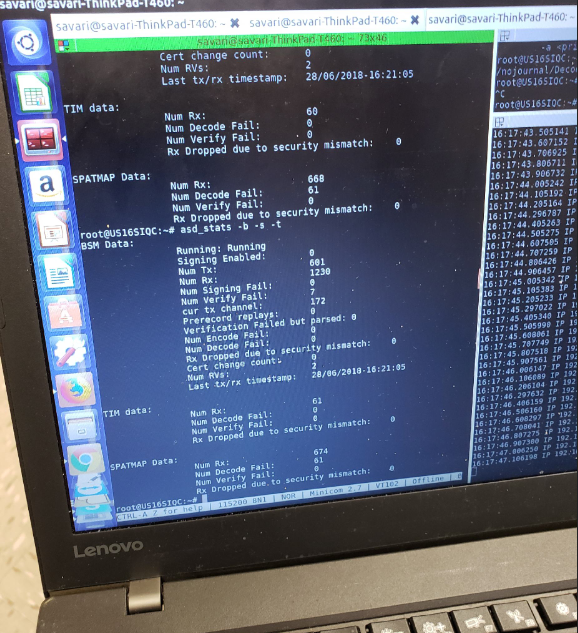


* + - Interoperability testing of OBUs:
      * Lear – received SPaT, MAP, TIM messages
      * Cohda – received SPaT, MAP, TIM messages
      * Commsignia – received SPaT, MAP, TIM messages
      * Denso – unable to test in lab. Needs MAP matching – need to be out in the field

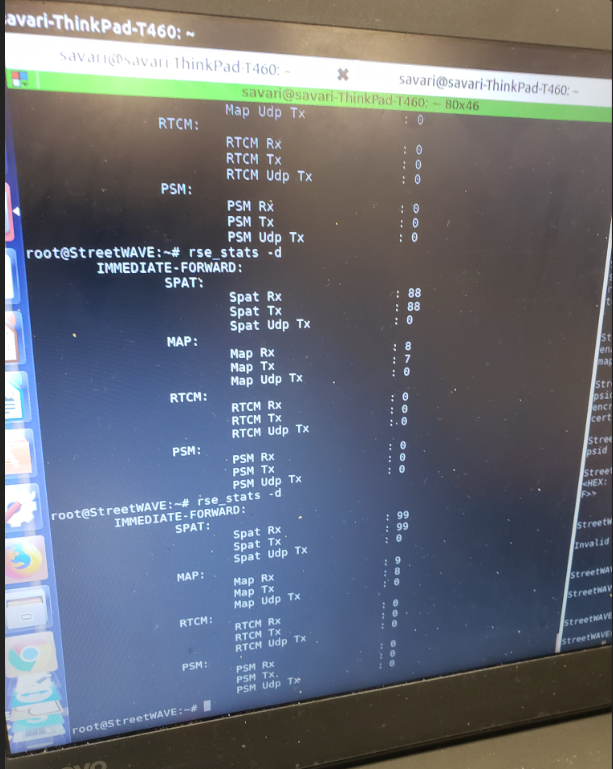
* + Cobalt – SPaT, MAP, TIM successful



* + - Interoperability testing of OBUs:
      * Lear – received SPaT, MAP, TIM messages
      * Cohda – received SPaT, MAP, TIM messages
      * Commsignia – received SPaT, MAP, TIM messages
      * Denso – unable to test in lab. Needs MAP matching – need to be out in the field
  + ASC3 – SPaT, MAP, TIM successful



* + - Interoperability testing of OBUs:
      * Lear – received SPaT, MAP, TIM messages
      * Cohda – received SPaT, MAP, TIM messages
      * Commsignia – received SPaT, MAP, TIM messages
      * Denso – unable to test in lab. Needs MAP matching – need to be out in the field
  + Trafficware ATC – SPaT, MAP, TIM successful



* + - Interoperability testing of OBUs:
      * Lear – received SPaT, MAP, TIM messages
      * Cohda – received SPaT, MAP, TIM messages
      * Commsignia – received SPaT, MAP, TIM messages
      * Denso – unable to test in lab. Needs MAP matching – need to be out in the field
  + Intelight - Vendor needs more time to test this controller. Unable to interpret data packets at this time.

TESTING WITH VARIOUS RSUs: (note given time and availability, not all RSUs were able to be tested)

* Commsignia RSU was able to communicate with the Savari OBU
* Cohda RSU was NOT able to communicate with the Savari OBU
* Testing of other OBUs were not available beyond Commsignia and Cohda at the time of Savari’s lab testing due to weather restrictions