AES Radio Diagnostic Module Rev C Version 2.0 Instructions

1. Plug the Radio Diagnostics Module into the AES Radio Programmer Port using the supplied cable.
2. On power-up or manual reset of the radio, you will see the Model and Version of the radio for a few seconds.
3. The first line will continue to display the Radios Account #, Netconn, Link Level, the number of Good and Total Peers, and who the Top Peer is. I.E.:
   a. #4321 N:5 +6:8 - (#4321=Account, N:5=Netconn 5, +6:8=6 Good Peers out of 8 total peers)
   b. :0110 N:5 L:2 = (:0110=Top Peer, N:5=Netconn 5, L:2=Link Level 2
4. The second line will show the radios system status pertaining to AC Power, Battery, Ground Fault, Zone Alarms and Troubles, etc. *Radio All Okay* will be displayed if the radio does not have any trouble or alarm conditions and has good network connectivity. *Network POOR* will be displayed if the Netconn is 6 or 7.
5. When plugged in, the module will send a Manually Triggered Test (E601 95 C915) event to the Central Station via the radio as soon as it detects it is on the network. This is simply to indicate to the Central Station that an AES Radio Diagnostic Module has been connected to the radio.
6. HOLD the A button to select Packet Monitoring Mode or Transmitter Test Mode. Release the button to select the displayed function.
   a. Packet Monitoring Mode:
      ▪ Selecting this mode will enable RX, TX, and ALL packet monitoring on the radio and display the number of packets Received (by ANY radio on the network) and the number of packets Transmitted by this radio and how many of those Transmissions got Acknowledged. You will also see the source, packet type, and destination of the packet on the second line of the display.
   b. Transmitter Test Mode:
      ▪ The Transmitter Test Mode will enable RX and TX packet monitoring and will display total number of Transmitted Packets and how many of those Transmissions got Acknowledged.
      ▪ Test Mode will attempt to send five (5) Manual Test (E601 95 Cxxx) events to the Central Station Receiver. Each E601 event will have a Zone # (Cxxx) incrementing from 001 to 005, one for each of the five Transmission attempts.
      ▪ After all five transmit tests have been performed, a Radio Polling (E356 95 Cxxx) event will be sent to the Central Station with the Zone # (Cxxx) indicating the % (000..100) of successful Transmission attempts in relation to acknowledgements received for each transmission.

   NOTE: ALL Events sent by the Diagnostic Module will appear to be from an IntelliTap/Pro and will be sent with Area # (a.k.a. Partition) 95. IntelliTap Reporting must be Enabled on the radio for these messages to be delivered to the Central Station.