Intuicom - How to run diagnostics on Intuicom ethernet bridges using CommPro

413 Beth Bartel June 19, 2020 CommPro Software 2512

Local diagnostics: Diagnostics on sending and receiving only at the radio to which the computer is attached.

NOTE: The outdated and offensive "master-slave" terminology has been replaced with "Access point (AP) - Station/Endpoint (STA)" in all instances, but will still remain in the configuration software when implemented

Remote diagnostics: Diagnostics of all/any connections from the access point radio.

To run local diagnostics:

1. Enable local diagnostics on the radio (1).
2. Enable local access if it is not enabled already.
3. Check for good signal-to-noise ratio (SNR); green is good.
4. Check VSWR (reflective power). A value in the low single digits is best but sometimes the link will work up to a value of 20. If it works, the statistic is not important. We have remade antenna cables in attempts to lower this value without success. (This feature in Local Diagnostics appears to be broken at the time of writing; value reads 0.)

To run remote diagnostics:

1. Enable diagnostics on the access point radio; this will override endpoint settings (i.e. this will still work if the endpoints are disabled). Common settings are in the range of 15-30.
2. Check decode success. Try for >90; >80 is still okay. We have working radio shots in the 70s, but generally the signal is too weak <70. Note that the decode success will fluctuate with moisture. Some shots in California fluctuate by as much as 20 percent, from 60-80. Some days the shots work and some days they don't.
3. If the access point radio is connected to e.g. a Lantronix CDMA modem, you can run diagnostics remotely. Leave the network configured for diagnostics. You can then configure the network remotely as well, by making changes from the endpoints up.

The "Help" function within CommPro is informative and can be consulted for more detailed information on settings.

Note that some settings look different in different modules within CommPro, e.g. a frequency key of A in one module is expressed as a 10 in another, and a diagnostics setting of 30 in one module is expressed as 291 in another.

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