Apache Labs ANAN-10E PowerSDR

How to Recover from "Fatal Error" at Startup

by Rick Peterson, WA6NUT
January 2021

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1   Introduction

Here's a procedure to recover in the unlikely event that you encounter a "Fatal Error" message when you try to open your Apache Labs ANAN-10E SDR's PowerSDR software. The author experienced this message along with "Unexpected end of file" and a list of the affected files.

A helpful post on the Apache Labs user's group site,

https://apache-labs.com/community/viewtopic.php?f=9&t=3186

(see the Thu Nov 07, 2019 post by "ramdor"), shows how to uninstall PowerSDR and delete an additional folder before reinstalling PowerSDR.

This procedure assumes PowerSDR installed in Windows 7.

2   Uninstalling PowerSDR

Uninstall the PowerSDR_mRX_PS_v.3.3.6.0 app using the prompts in Control Panel --> Programs and Features

3   Deleting the AppData\Roaming Folder

Next, we'll remove the folder named

C:\Users\<user>\AppData\Roaming\FlexRadio Systems

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This folder is found by:

Find the C:\ drive by Computer --> Windows (C:). Double-click on the Windows (C:) box. You'll see the various folders stored on the C:\ drive. Type "PowerSDR" (without the quotation marks) in the Search Window, followed by pressing the "Enter" key. Wait for the list to fill.

Find:

   PowerSDR mRX PS

   C:\Users\<user>\AppData\Roaming\FlexRadio Systems

where <user> is Rick for my system. Left-click on the above entry to select it, then right-click on it to bring up options. Select Delete and left-click on Delete to delete the AppData\Roaming folder.

4   Reinstalling PowerSDR

Find the PowerSDR setup app by:

   Documents --> Apache Labs (folder) -->
                        PowerSDR_mRX_PS_v.3.3.6.0_Setup

Open the file and follow the prompts to install PowerSDR. PowerSDR will open running the "Wisdom" FFT optimization. The optimization will take a while.

5   Configuring PowerSDR

Follow the instructions in the ANAN-10E User's Guide, pp. 17-19, for the settings under Hardware Config (Setup --> General --> Hardware Config). For the setup at WA6NUT:

   ANAN Address
   IP   169.254.198.125   Ver. 1.2
   MAC   00-1E-C0-A5-C6-7D   ID: Hermes

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The following are settings specific to FreeDV+ operation:

Setup --> General --> Hardware Config

    <u>Un</u>check "Disable Pure Signal"

Setup --> General --> Transmit

    Tune: Power = 1

    20 dB Mic Boost checkbox checked

    Transmit Filter
    High = 3600
    Low = 200

Setup --> General --> Tests

    Two Tone Test: RF Power = 1

Setup --> General --> Ant/Filters

    SWR Protection
    <u>Un</u>check "Enable Protection"

On PowerSDR screen:

    Click on "DUP"
    Master AF = 50
    RX1 AF = 50
    Drive = 2
    VFO A = 14.236 000
    Mic = 40 dB
    Band = 20
    Mode = USB
    Bandwidth = 3.8k

Last revised 1/4/21