CS Modifications Instructions v 1.0

CommStatone v 1.05 was the genius work of Dan (W5DMH) augmented by some input and testing by AmRRON operators. It continues to have a prominent place the the emergency operations plan of AmRRON and many other stations and organizations.

In CommStat V 1.0.6 I have attempted to modify CommStatOne to better reflect the current FLMsg Custom Form "AmRRON StatRep 5.1".

In V 1.0.7 I have added to the 1.0.6 modifications by adding an offline map. Note: this version has a directory of map tiles that takes up 10 meg of disk space. If this is a problem use V 1.0.6 to get the StatRep 1.5

This is a layman's attempt by KD9DSS to use Python for these modifications. Clearly I am not a programmer and less tech savvy than many. But it seemed the changes would be minor..so I gave it a shot. I have poked around, working with some coding software in an attempt to update the StatRep to current standards and provide for an offline map many have asked for.
Of special note. This small effort by KD9DSS could only be attempted because of the massive work by Dan (W5DMH) in creating and coding the original CommStatOne V 1.05. Dan has graciously allowed me to make these changes but he has no responsibility for any errors or omissions. They are solely on me. Thank you Dan

1. Changes in V 1.0.6:
   a) StatRep Entry
      i. Replaced field 2 "Precedence" with "Scope" options. (Custom Form says "Size and Scope")
      ii. Relabeled field 6 as "Map Pin.
      iii. Fields 7-17 added an "Unknown" option that should be reflected as a Gray color.
   b) StatRep display on main screen
      i. Scope field will display appropriate text. (My Location, My Community…and such
      ii. Map Pin label column
      iii. Conditions can display the gray color for conditions unknown
   c) StatRep display in the Data Manager will reflect the gray option as well as in the Reports.
   d) Map "pins" were reduced to display a little smaller on the maps
   e) Changed the response to the CS? request to reflect the updated version.

2. Changes in V 1.0.7: in addition to all the changes in 1.0.6
   The program now has and uses a directory of map tiles and a "local host" to pull the map tiles. I have not included a full spectrum of map tiles but sufficient for the purposes of a good "Situational Awareness" map.
   a) Offline map and window size on main screen
      Anomaly: this map seems to attempt to pull local tiles for the map. If a tile is not available locally, it attempts to pull from online source. I can't see where the code does this so……it is a "Feature" yah…thats what it is.
   b) Offline map in Data Manager
      Note, if a map tile is not available locally the map will not display. "that was expected behavior in the first place….
   c) Offline map in the reports generated by the Data Manager
      Note, if a map tile is not available locally the map will not display. "that was expected behavior in the first place….
3. **Backward Compatibility:**
   a) Modified versions (1.0.6 and 1.0.7 of CommStatone can decode and display messages generated by Commstat 1.05
   b) Modified versions (1.0.6 and 1.0.7) of CommStatone can create statreps that are decoded and displayed by Commstat 1.05 **IF the you do not use one of the new "conditions" (unknown) or new "Scope" (Other Location).**
   c) Once you have tested the new features on your install, it is recommend that you rarely use the new conditions until we have wider distribution. (to prevent stations with older versions from frustration and not understanding why they could not decode/display your StatRep. But don't let this stop you from testing or occasionally sending a "test" statrep with the new conditions.
4. **Exceptions to Offline Maps:** I did not attempt (ok that is a lie.) I did attempt to modify the maps on "Net Manager" and "Member List" but I gave up due to complexity…or maybe fatigue. These two features have not been used much so I did not continue the struggle.

Installation of a modified version

1. Email Rich (KD9DSS) requesting access to the Proton Drive shared folder(s)
   a) KD9DSS@protonmail.com
   b) Once your email is received you will be given access and notified by eMail
2. Make sure CommStatone has previously been installed and has been successfully running before attempting these modifications. (
3. Make a backup copy of your Commstatone folder
   a) This will be used for the testing to prevent messing up your existing CommStat.
   b) Rename this folder to commstatoneOrig
   c) We will make these modifications to the "commstatone" folder. If for any reason things go wrong. You can always go back to your Original.
4. Move modified files
   a) Access and download the Proton Drive files you wish to install. (Remember the offline map version also has the updated StatRep 5.1.)
      i. CommStat Update to Offline Map (has all updates)
         1. 12 files and a directory holding tiles
         2. Many of the files names match current files in the original Commstatone directory
      ii. CommStat Uptate to StatRep 5.1 (does not have offline maps)
         1. 11 files that have the minor modifications.
         2. The file names match current files in the original commstatone folder
   b) Open the downloaded folder
      i. Select and copy all files and directories
   c) Paste these files into your "commstatone" folder
      i. You will be notified the files already exist and asked if you want to replace them with newer versions.
      ii. Reply yes or replace to each.
   d) Launch this new version of CommStat
      i. Linux 20.3 and Windows
         1. Open a command window
         2. CD to the "commstatone1" folder
         3. Enter "python3 commstat.py" (some may use "python commstat.py")
      ii. Linux 22.1 using the new AmRRON Setup Script
         1. Launch using the desktop icon
         2. Or if you wish to use the command window to see any "errors"
         3. IF you need to run from the terminal (just using the desktop launcher is recommened):
            a) cd ~/Radio/commstatone
            b) source /venv/bin/activate
            c) python3 commstat.py
   e) You should now be up and running.

Testing

1. IMPORTANT! Understand that stations running CommStat v1.0.5 will not "decode" your CommStat V1.0.6.1 Statrep if you choose options they do not yet have.
   a) "Scope" for "Other Location"
   b) Conditions that are Gray
2. If you refrain from using these new "conditions" (sticking to the normal Green, Yellow, Red) and not selecting the Scope of "Other Location" they should be able to decode your StatRep 5.1.
3. Certainly we need to test the new "conditions", but lets be cautious not the use them too frequently once you determine they work. We don't want to frustrate stations not yet given the upgrade.
4. Once installed you should be able to run this upgrade instead of the original.
5. Things to test
6. Testing to see if CommStat v1.06 or v 1.07 crashes or fails
7. Create a StatRep v5.1 and "Save Only" to see how it displays
8. TX and Forward a couple v5.1 statreps
9. RX and Forward StatReps 4.0)
10. See that the maps on the Main Screen, Data Manager, and Reports display as expected
11. Use the Data Manager to assure it works displaying the 4.0 and 5.1 Statreps and the smaller map pins
12. Use all the features of CommStat to see that they all continue to work
13. Any "errors": attempt to read you command window to see if it identifies the error or line number of the program that failed. (Screen shots helpful)
14. Any "errors" attempt to report what you were attempting to do when the program failed.
15. IF it failed, you will need to execute the following to complete install.
16. cd ~/Radio/commstatone
17. source venv/bin/activate
18. ./linuxinstall.sh
19. Default should be /home/rich/.local/share/JS8Call