

Technical Summary ^{v1.0}

CommStatOne v1.05, originally developed by Dan (W5DMH) with testing and input from AmRRON operators, remains a cornerstone of AmRRON's emergency operations plan and is widely used by other stations and organizations.

In response to community requests, I've modified portions of the original CommStatOne v1.05 files (not all) to:

- ▲ Align with the **FLMsg Custom Form "AmRRON StatRep 5.1"**.
- ▲ Enable **offline/online map functionality** via a local map tile directory and fallback to online tiles when needed.
- ▲ Increase size and emphasis of the map window on the main page

While storage constraints limit the inclusion of a full tile library, the provided set ensures effective **situational awareness mapping**. Offline use is prioritized, with online access serving as a supplementary fallback when connectivity allows.

Important Note from KD9DSS

This is an amateur, self-guided effort by KD9DSS using Python to implement what I believed would be minor modifications. I am *not a trained programmer* and lack the technical expertise of many in this community. This was purely a trial-and-error process.

None of this would be possible without **Dan (W5DMH)**, whose foundational work on *CommStatOne v1.05* made this adaptation feasible. Dan generously allowed these changes but has no responsibility for errors, omissions, or unintended issues—all flaws here are mine alone. Thank you, Dan, for your vision, code, and trust in letting me attempt this.

Backward Compatibility

CommStat v2.0 maintain backward compatibility with the original v1.05 release in two critical ways.

- ▲ CommStat v2.0 can decode and display all StatReps generated by CommStat v1.05, ensuring seamless access to historical data.
- ▲ CommStat v2.0 StatReps will decode and display by CommStat v1.05 stations **provided** CommStat v2.0 users avoid using newer fields such as the "Conditions" value "Unknown" or the "Scope" value "Other Location." If these expanded options are used, the resulting StatReps will not be decoded by v1.05 stations.

Lesson: Update to CommStat 2.0!

Installation of Modified Files

This update to **CommStatOne v2.0.0** modifies only essential files from the original **v1.05** release. Installation requires replacing specific files in a *functional, pre-tested* CommStatOne v1.05 installation.

Preparation

- ▲ **Verify Existing Setup:** Ensure CommStatOne v1.05 is fully operational before proceeding. This update assumes a working v1.05 installation.
- ▲ **Request Access:** Email **Rich (KD9DSS)** at KD9DSS@protonmail.com to gain access to the Proton Drive shared folder containing the updated files.
- ▲ Access will be granted via email once requested.

Installation Steps: (Simplistically this is a copy/paste of files into a previously installed and tested CommStatone 1.5.0 installation.)

Download Files:

- ▲ After receiving access, download the shared folder titled "**CommStat Update to Offline Map**". This folder includes: updated files, a directory of map tiles, and instructions.

Replace Files:

- ▲ Open your download folder and copy **all contents** of the v2.0.0 update (files, directories, and instructions).
- ▲ Paste them into your existing "**commstatone**" installation directory.
- ▲ Confirm replacement when prompted (select "Replace" or "Yes" for each conflicting file).

Launch the Updated Version:

1. Linux 20.3 / Windows:
 1. Open a terminal/command window.
 2. Navigate to the *commstatone* directory: `cd commstatone1.`
 3. Run the program: `python3 commstat.py` (or `python commstat.py` if needed).
2. Linux **22.1 (AmRRON Setup Script):**
 1. Use the desktop shortcut to launch the program.
3. Linux **22.1 (AmRRON Setup Script)** Command line option. From a command window:
 1. `cd ~/Radio/commstatone`
 2. `source /venv/bin/activate`
 3. `python3 commstat.py`

Completion

If steps are followed correctly, the updated v2.0.0 interface should load without errors. The offline map functionality will now use local tiles, with online fallback if available.

Files and or directories modified or added for Commstat v 2.0 to function properly

1. tilesPNG2
2. comdata.py
3. commstat.py
4. CommStat v2 Instructions.pdf

5. csresponder.py
6. datareader.py
7. marquee.py
8. members.py
9. netmanager.py
10. server.py
11. statack.py
12. statrep.py
13. statrep-5v-bottom.html
14. statrep-5v-bottom.png
15. statrep-5v-top.png
16. statrep-inst-commstat.png