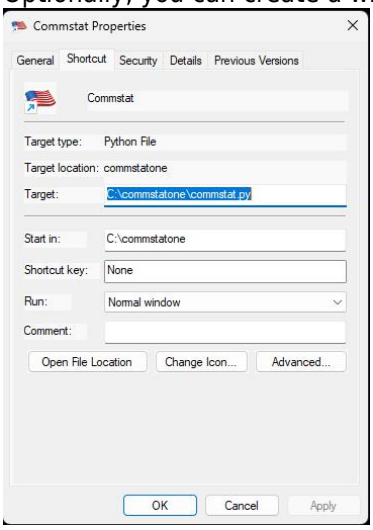
CommStatOne

CommStatOne represents a significant update to the CommStat program. Important changes have been made in the way things are handled by the program over the first generation. Importantly is the way CommStat handles mapping locations. No longer does CommStat depend on a call-sign database for map locations. It now uses 4 or 6 digit grid locations. These location are pulled either from your settings or the grid communicated in a check-in or StatRep.

1. Install links are on the GitHub site. Scroll down to the bottom of the GitHub page for links and instructions. https://github.com/W5DMH/commstatone. ALERT!!! It is critical that everyone runs the install procedure detailed on github as there are new dependencies that need to be brought in.
2. CommStatOne works on the following operating systems: Windows 10 & 11, Linux Mint 20 & 21, and RPi OS 64-bit (bullseye).
3. Install Instructions
    a) If an earlier version of CommStatOne has been installed. Change the name of the commstatone folder before you begin a new install. (I typically change mine to commstatone-1) This allows the new install to create a new commstatone folder for the upgrade install..
    b) CommStatOne is a Python-based application and requires Python version 3.8 or higher to be installed before CommStatOne installation can be completed. You can download Python at https://www.python.org/downloads/ . When installing Python, be sure to check the option to have Python added to your path statement.
    c) PIP is a package manager for Python. It is a tool that allows you to install and manage libraries and dependencies. PIP is normally installed with Python, but if you run into problems installing CommStatOne and you are told that PIP is not installed, use the following procedure to install PIP. https://pip.pypa.io/en/stable/installation/
        i. Linux Mint 20 & 21/RPi OS 64-bit (bullseye): paste into command window:
            1. sudo apt-get install pip
        ii. Windows: paste into command window:
            1. curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py
            2. python get-pip.py
    d) Linux Mint 20 & 21 /RPi OS 64-bit (bullseye) Savvy user
        i. Open a command window
        ii. Copy and paste the following command:
            git clone https://github.com/W5DMH/commstatone.git
        iii. Type: cd commstatone
        iv. Type: chmod +x linuxinstall.sh
        v. Type: ./linuxinstall.sh
        vi. Enter your sudo password at the prompt
        vii. Fill in settings fields (see below)
        viii. Launch CommStat type: python commstat.py or (python3 commstat.py)
    e) Windows Savvy Users
        i. Open a command window. (type “command” in the windows search on the task bar)
        ii. copy and paste the following command "git clone https://github.com/W5DMH/commstatone.git"
        iii. Type: cd commstatone
        iv. Type: python install.py (or use python3 install.py if necessary)
        v. Fill in the settings (see below)
        vi. Launch Commstat. Type: python commstat.py (or python3 commstat.py)
    f) Windows Others:
        i. Go to https://github.com/W5DMH/commstatone/raw/main/commstatone.zip to download the commstatone zip file.
            1. Save to a temporary directory of your choice (e.g. your Downloads folder).
        ii. Use Windows File Manager to “Extract all.”
            1. You will be asked to select a Destination folder.
            2. Enter the path of your choice but make sure the folder name is “commstatone”. Example C:\Users\{UserName}\commstatone
            3. The commstatone folder will be created for you during the extraction process.
        iii. Run the Windows Command Prompt app. For example, type “command prompt” in the Windows Search field, or press the Windows+R keys and then enter “cmd”.
        iv. In the Command Prompt window, change directory to the new commstatone folder. For example, type “cd\Users\{UserName}\commstatone” etc.
        v. Enter the following command without quotations: “python install.py”. (Depending on your setup, you might need to enter “python3 install.py” instead.)
        vi. When the installation finishes, you should see the CommStat settings window.

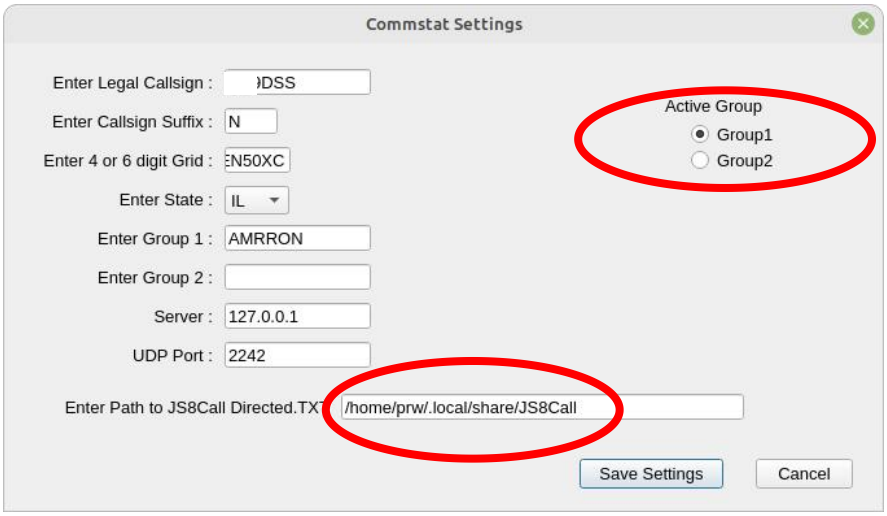
1. Go to Section 4 for instructions on CommStat Settings.

vii. Run CommStatOne using one of the following methods:
   1. From the Command Prompt window, enter (without quotations) “python commstat.py” or “python3 commstat.py” (if your system requires python3).
   2. Optionally, you can create a windows shortcut. Example



g) For any installation issues, failures or if Commstat fails to run as expected visit https://groups.io/g/CommStat/topics

4. CommStat settings

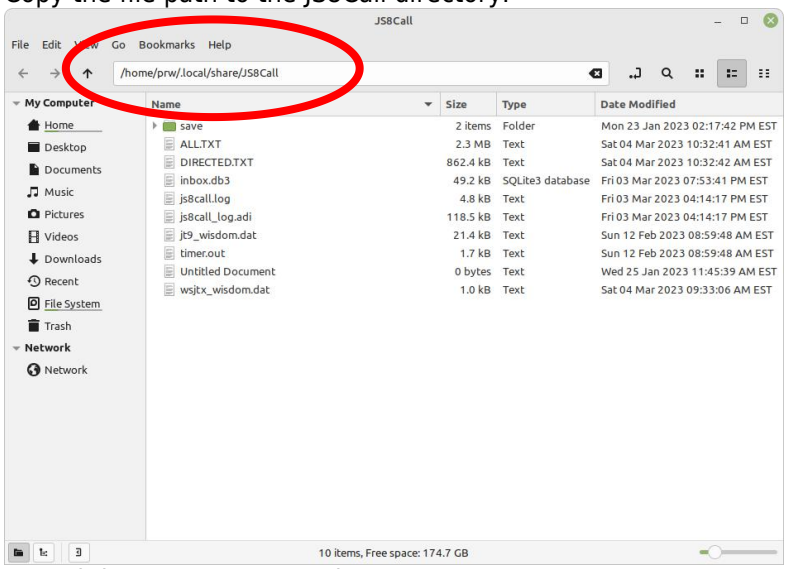


a) Complete the settings using your FCC callsign, your desired grid (4-6 digits)

b) Add AMRRON as a group and choose it as Active Group (NOTE: the older CSTAT group has been dropped and AmRRON communications through CommStat use the AMRRON group. All references to the group CSTAT now refer to the group AMRRON.)

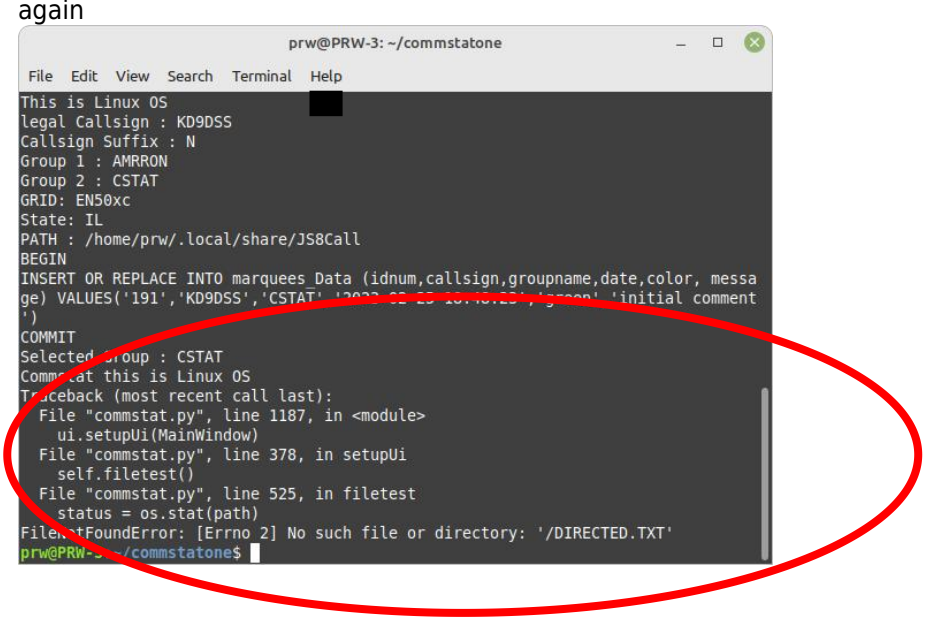
c) Paste the path to your JS8 DIRECTED.txt.
   i. Open JS8, select the drop-down menu: Log/Open Log Directory

ii. Copy the file path to the JS8Call directory.

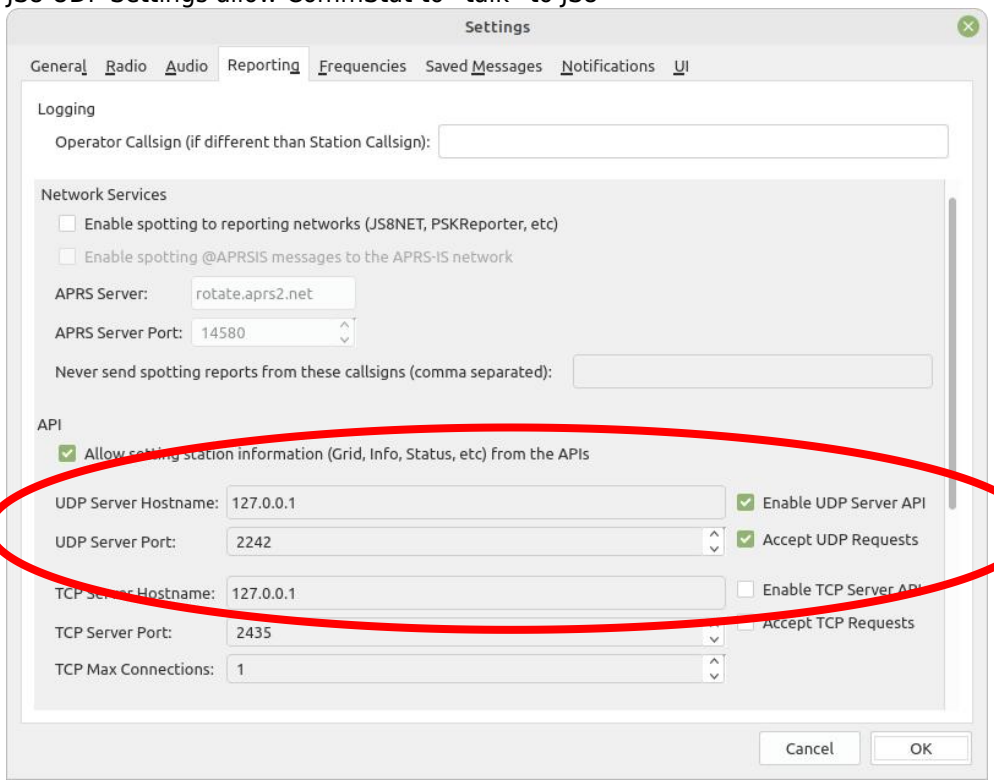


iii. Paste it into CommStat settings

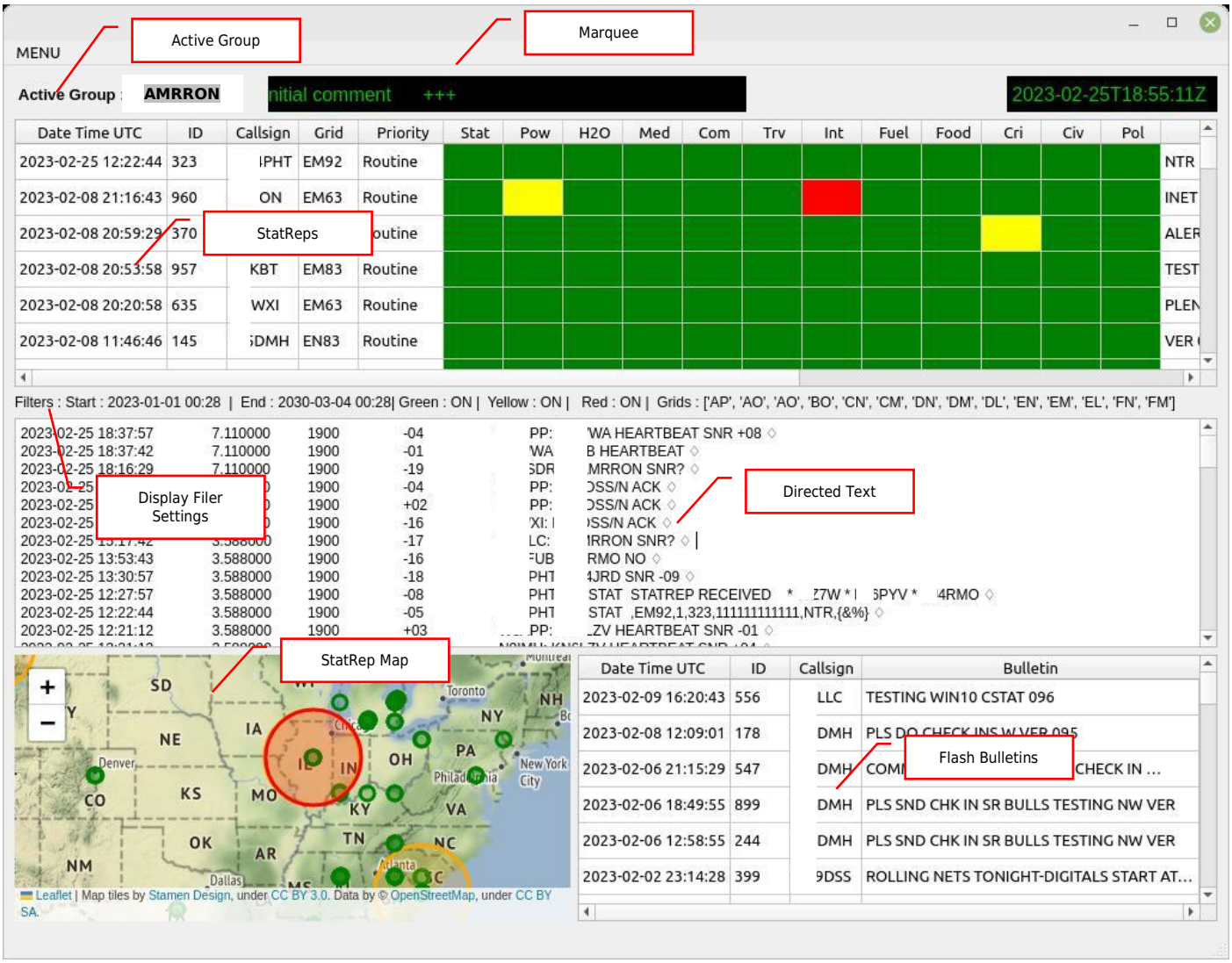
d) Click the Save Settings button. Not to worry if error displays in command window. Just launch CommStat again



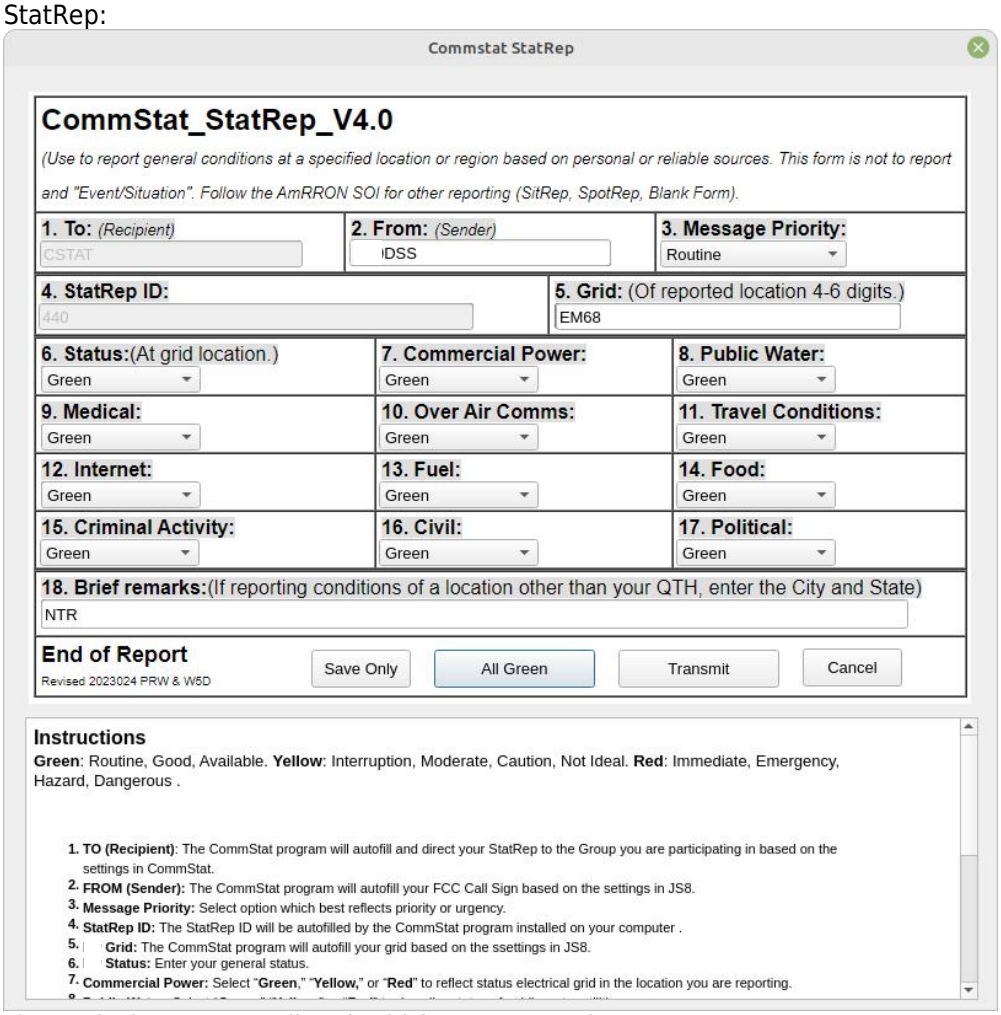
5. JS8 UDP Settings allow CommStat to “talk” to JS8



6. Main Dashboard

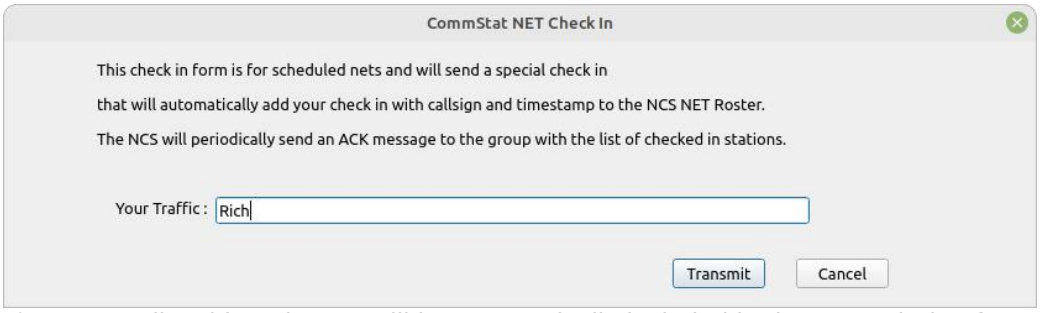


7. NOTE!!! CommStat has a lot to think about. Most of the time CommStat will pause prior to sending information to JS8, then JS8 will pause for the time sync thing. Also, CommStat may pause for information to be received in your "Directed.txt" file. If nothing is being received on JS8, CommStat will wait. If the frequency is very quiet, you might trigger another station(s) to TX with a SNR or MSG request. Bottom line: BE PATIENT! You will love the results.
8. Note: if you wish to find other CommStat stations within your group use the CS? command in JS8. Example: @AMRRON CS? This will trigger CommStat stations within the group to reply to the group with a call sign, State, and grid.
9. SMS and eMail Features: For these two features to work you should tune to a "standard" JS8 frequency thus having a better chance that a station that facilitates this feature. Designated RX stations with "Reporting" turned on can pick up your eMail or SMS request and send it over the internet. (Note: there is no acknowledgement that your SMS or eMAIL request has been accepted and transmitted.)
    a) JS8eMAIL:
    b) JS8SMS:
10. StatRep:



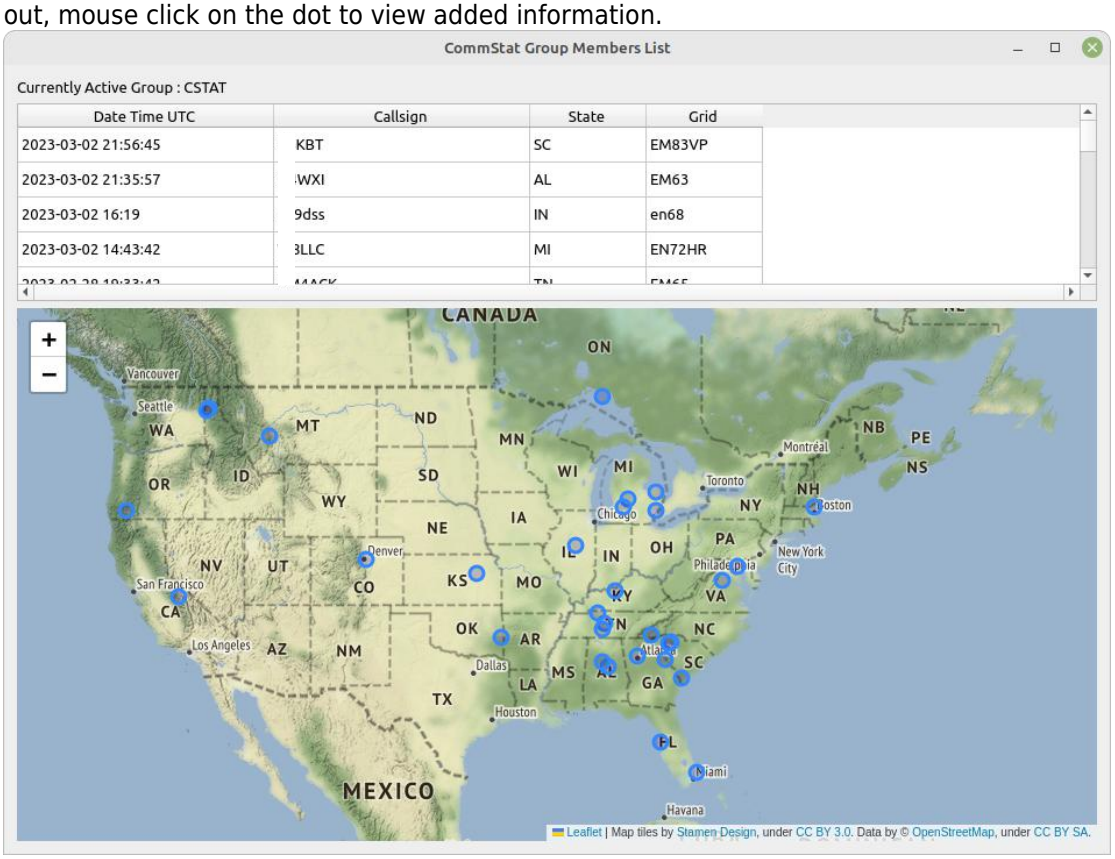
    a) Defaults to your call and grid from your settings
    b) Set conditions to desired levels. The "All Green" button can speed up the process if all or most conditions are green.
    c) If reporting conditions for a location not your own,
        i. set the grid to the reported location
        ii. Set "Status" to the attitude of the people at the location (Status selection controls the pin color and size on the map)
        iii. Note the city and state in the remarks field.
    d) If logging a StatRep for a station not your own, enter their Call and their Grid. Note in "remarks" MA (Manually Added), last 3 of your call, StatRep ID if there was one. (Example: "MA DSS 166- remarks..."). You might do this if you receive a partial CommStat StatRep and want to log it to your CommStat.
    e) You can "save only" or "transmit" a StatRep from another station. (you may have received an incomplete and want to log it. You may have received a StatRep on Contestia and want to log into CommStat.)
    f) Transmit or Save as desired

11. Net Check In

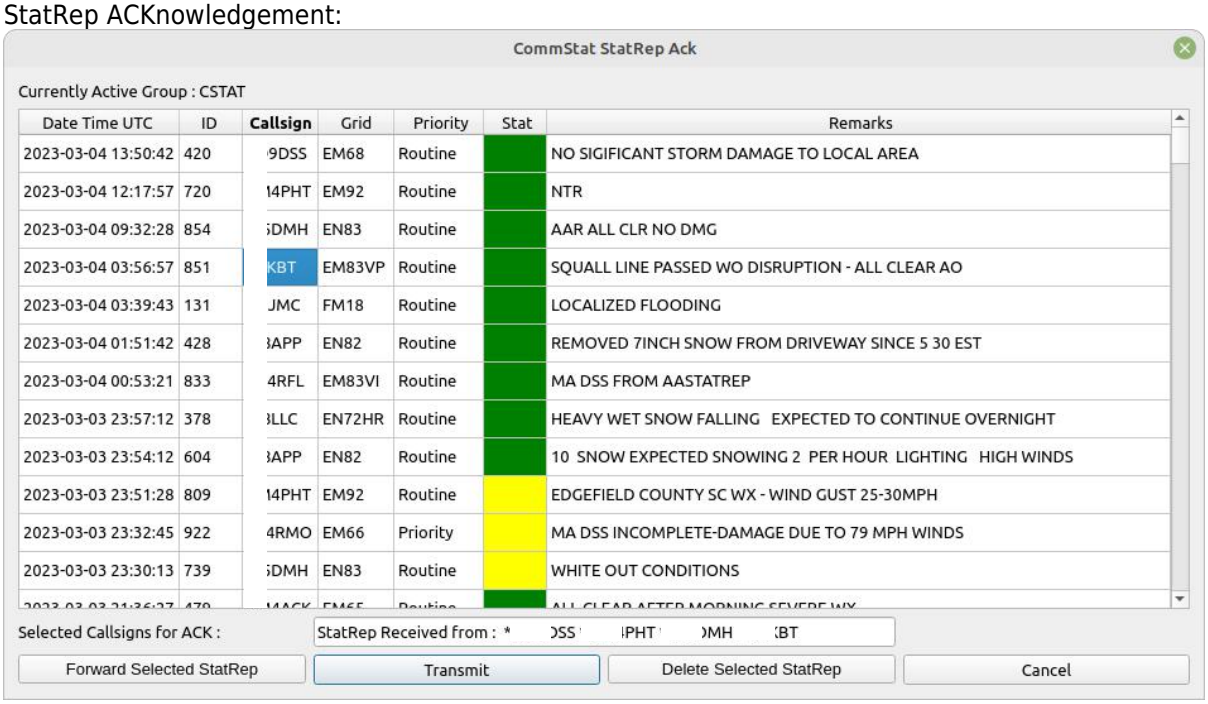


a) Your Call, Grid, and State will be automatically included in the transmission from your CommStat settings
b) Add any info NCS requests. (shorter the better...this is js8!)

12. Member List: This is a list and map of stations who have “checked in”. This list will provide an historical view of stations in your group that you have copied their check in. As with all maps in CommStat you can zoom in and out, mouse click on the dot to view added information.

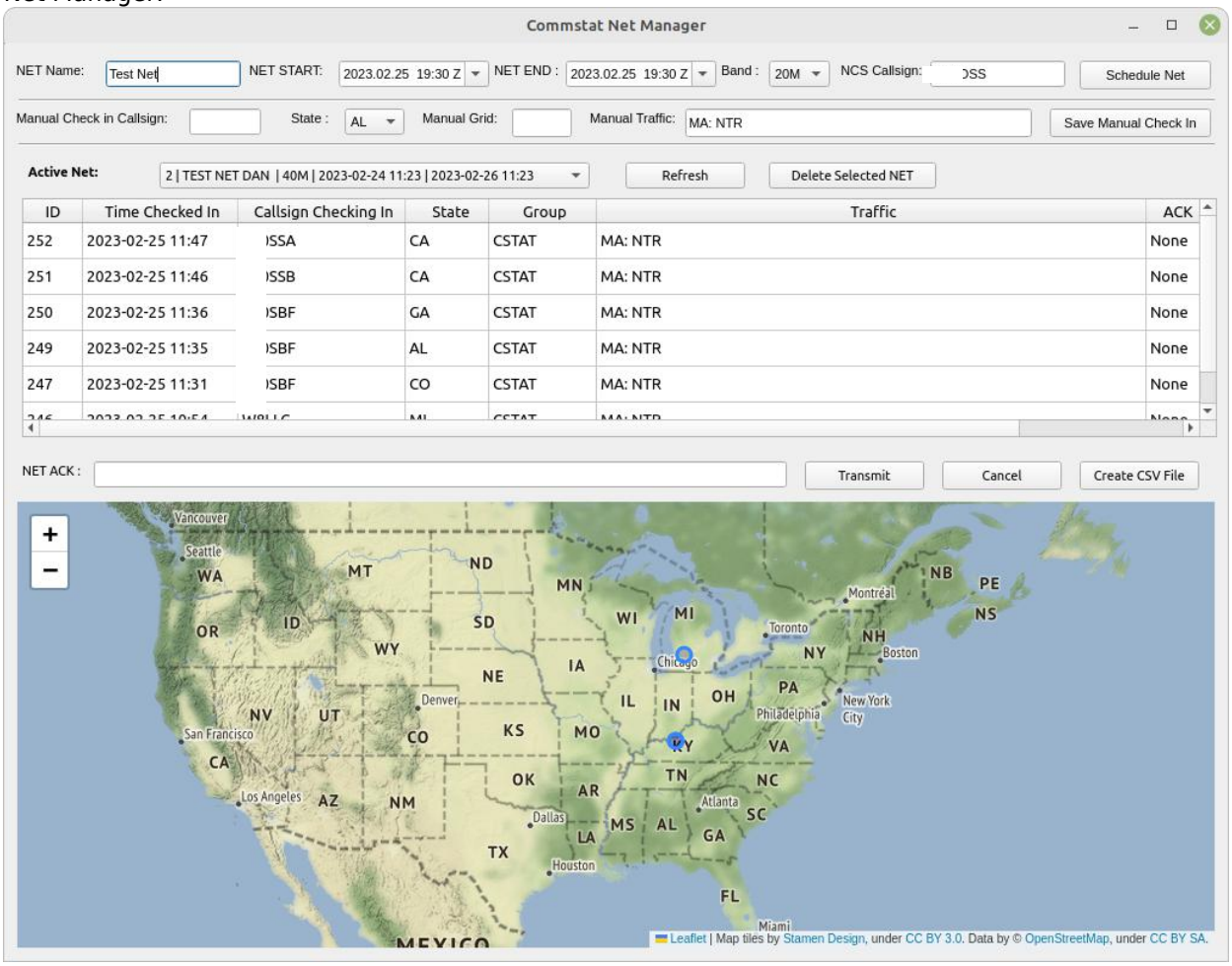


13. StatRep ACKnowledgement:



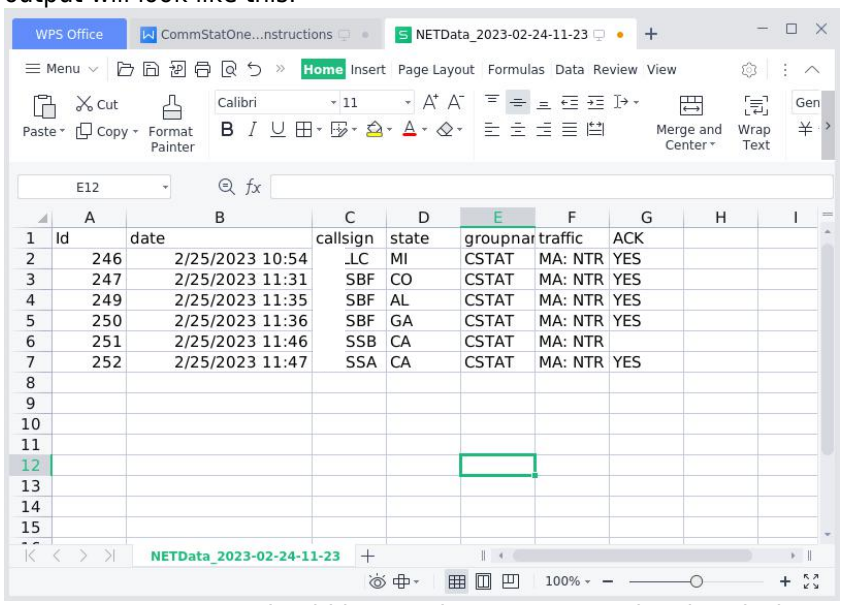
a) You can ACK one or multiple StatRep simply by clicking anywhere in the row. This will add the callsign to your “Selected Callsigns for ACK” field
b) You can “forward” a single StatRep (one at a time). The “forwarded” StatRep will maintain the original ID# and will not duplicate if the receiving station has already received that ID.
c) You can also use the Forward to resend your own StatRep maintaining the original ID and not duplicating for stations who have already received you StatRep.
d) You can delete a selected StatRep

14. Net Manager:

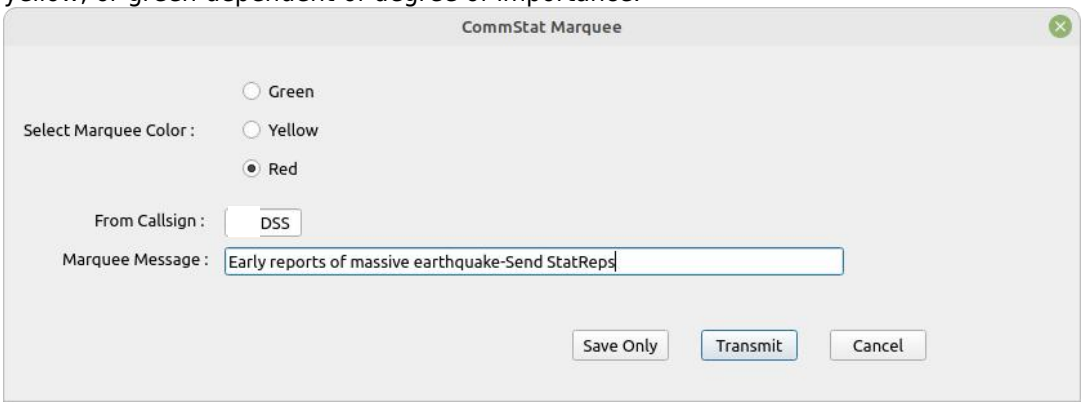


a) Create a Net Name
b) Set the Net Start date/time
c) Set the Net End date/time
d) Note the band
e) Your Call will be filled from CommStat Settings. Change this if you wish.
f) Hit the “Schedule Net” button
g) Select the net from the drop down “Active Net” field
h) Refresh button periodically to pick up new check-ins
i) Manually enter a check-in if necessary
j) Delete older nets
k) ACK check-in by clicking on the row with call-sign then hitting Transmit
l) Stations that have been added to your Net ACK field will reflect being acknowledged “yes” in your check-in list.

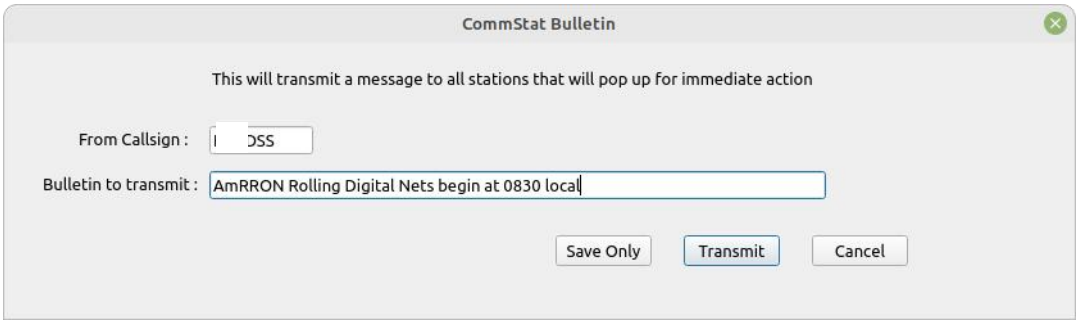
m) A CSV file of your net check-ins can be created. It will be saved to you commstatone/reports folder. The output will look like this:



15. New Marquee: Marquees should be sent by AmRRON National or designated stations. The content of a Marquee should be of national importance or emergency regional information. Marquees can be sent in red, yellow, or green dependent of degree of importance.

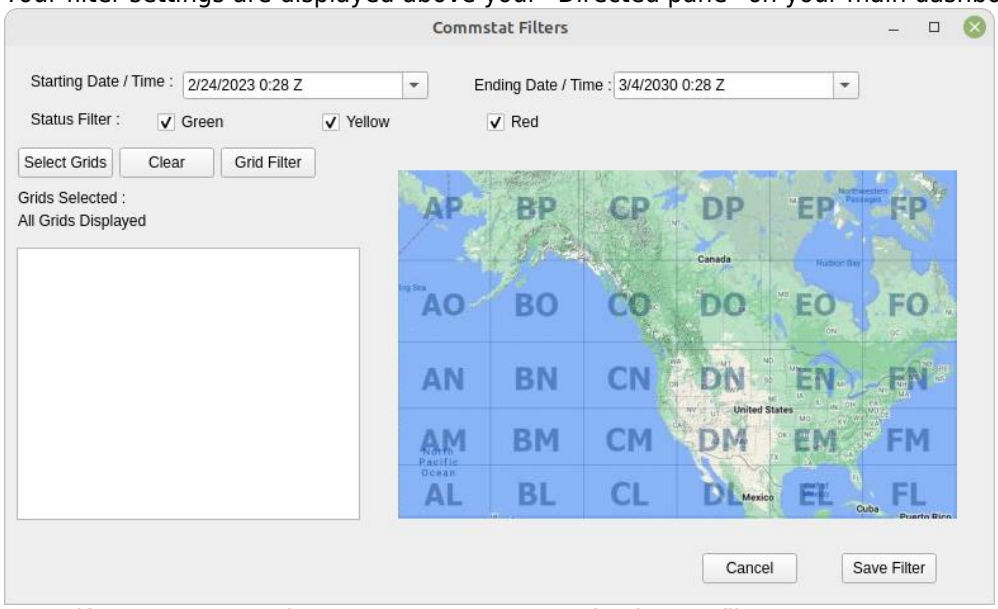


16. Flash Bulletin: Typically sent by designated stations or NCS. Bulletins can be related to national or regional events or announcements.



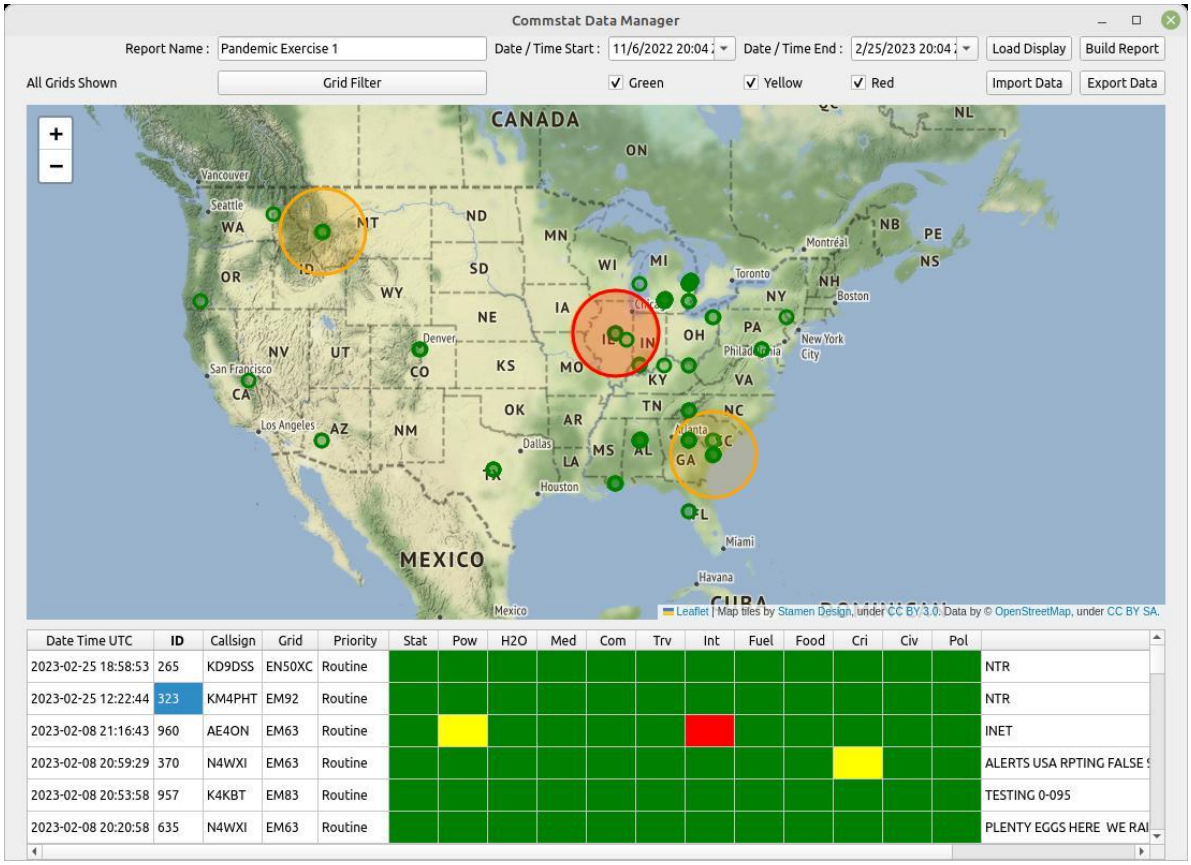
17. Display Filter: This feature allows you to filter the displayed StatReps and StatRep Map on your Dashboard.
    a) Set your desired filters and hit Save Filter
    b) To clear the filter and update your dashboard, hit the clear button, update your date range and hit save.

c) Your filter settings are displayed above your “Directed pane” on your main dashboard



d) Note, if you are not seeing content you expect, check your filter.

18. Data Manager: will generate a StatRep report for a specified period of time with additional filters. The report can be in the form of a PDF or an export file of the StatRep data. The data manager can also “import” a StatRep Report data file.
    a) Report name and date range
    b) Filter by date range, grids, and status colors
    c) Load Display button will load the display to the filters you have set
    d) Build Report button will create a HTML report saved to your CommStat folder.
    e) Export Data button will save your StatRep data to the “Reports” folder in your CommStat folder and allow you to send that data to another CommStat user to import into his Data Manager. (Several scattered stations might FLAmp the files to a central location for consolidation.
    f) Import Data button. You may import a StatRep data file received from another CommStat station.
    g) Display map is zoomable and clickable.
    h) Map pins are based on the grid reported on the StatRep. (4-6 digits)
    i) The map pins are colored based on the “Status” of the reporting StatRep. Yellow and Red are notably larger as visual alerts.



19. CommStat Help Desk is on the Groups.io site. Use this site to find solutions previously solved or to report new issues or ask questions. https://groups.io/g/CommStat/topics