

JS8Call HF Net Process

Over on groups.io, there's a discussion in the JS8Call group about using JS8 to run a Net. Gordon Gibby (KX4Z NCS521) [opened the discussion on Dec 22, 2020](#):

“

A few volunteers are giving a try at creating a protocol for a communications NET managed using JS8. The impetus came from observing the difficulties of voice net check-ins spread over a wide geographic area, with some stations unable to hear the net control station (and vice versa) [likely due to picking a higher operating frequency to get better strength signals, but then having to deal with SKIP ZONES], stations on top of each other in the time domain, difficulties understanding some stations, and on and on.

A first-draft protocol has been written and is about to be tested. The main difficulty accepting an unknown set of stations is a priori attempting to separate them in the frequency spectrum of an audio passband. The trial solution is to assign them in groups to segments of the audio passband, based on the last character of their call sign. This may somewhat reduce the chance of overlap. Anyone have a better solution? Goal was to check in multiple stations SIMULTANEOUSLY using the inherent frequency multiplexing of JS8.

This protocol uses a primary and backup net control (the policy of the voice nets of this group) and then has the primary NCS list all of the recognized stations in a message to the backup. All stations could copy this message, and then reply at the same time as the backup, with callsigns missed by the primary NCS at the first attempt.

Anyone ever done this before or have improved suggestions?”

A few days later, someone else jumped in with a helper program called NetControlJS8:

The screenshot shows two windows side-by-side. The left window is JS8Call de KN4CRD (v2.2.0) and the right window is NetControlJS8.

JS8Call de KN4CRD (v2.2.0) Interface:

- Frequency: 7.078 000, 1792 Hz
- Mode: NF4RC - EL89RQ
- Time: 15:00:11, 2020 Dec 30
- Message(s) area shows several messages from stations like KE4BML/9, W8BO, and HBNK.
- LIST OF STATIONS: N5JST
- Bottom section shows a CAT/S waterfall plot and a list of stations with their offsets, ages, and SNRs.

NetControlJS8 Interface:

An application to assist Net Control with JS8Call

Call Sign	Offset	SNR	Time Drift (...)	UTC	Status
KE4BML/9	496	-12	0.10000000149...	1609340407526	revised
W8BO	665	0	-0.8000000119...	1609340399105	new
KC4ZGP	1398	22	0.20000000298...	1609340352164	revised
KD4YDD	1503	17	0.10000000149...	1609340278851	revised
KX4UK	1249	5	0.20000000298...	1609340278111	revised
KC8MCY	952	-3	0	1609340277737	revised
WE4SEL	842	-1	0	1609340277692	revised
K5MKS	649	-6	0	1609340277622	revised
N0LSD	602	-5	0.10000000149...	1609340277592	revised
WS3H	800	13	0	1609340274787	revised
VA3OZO	747	-2	0.10000000149...	1609340262419	new
BEACH	1796	15	0	1609340129660	new

Buttons at the bottom: Send all to JS8Call, Send new to JS8Call, Send revised to JS8Call, Clear Status

- [Download link here](#) but I haven't tested it yet.

And yesterday, Gordon posted the [first draft of his proposed protocol](#).¹⁾

This project is very much a work in progress. It would be worth for those interested to join <https://groups.io/g/js8call> and follow the “Net Communications using JS8” topic.

¹⁾

The copy of Gordon's pdf posted here is static and will likely become obsolete soon.