## **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?"

(3) JS8Call de KN4CRD (v2.2.0) File Configurations Mode Log View Control Help		NetControlJS8		×				
	C - EL89RQ	File Edit View Window	w Help					
	15:00:11 2020 Dec 30		NetControlJS8 An application to assist Net Control with JS8Call					
Offset Age SNR Message(s)   496 Hz now -12 dB KE4BML/9:	14:52:37 - (1796) - AC8SM: KODRQU HEH, JUST ALONG FOR THE RIDE HIHI. WILL BE DOWN IN FL FOR NY SO HOPE TO DO A LITTLE		1					
665 Hz now +00 dB W8BO: @HB HEARTBEAT EM79 ◊	RADIO ALONG THE WAY $\diamond$	Call Sign 🔺	Offset 🔺	SNR 🔺	Time Drift ( 🔺	итс 👻	Status	<b>A</b>
1399 Hz now +22 dB HINK I WALKED ON SO DIAMOND, MAYBE NOT.	14:55:07 - (1796) - :SMSGTE :@CAT ENROUTE TO THE BEACH :) ATE	KE4BML/9	496	-12	0.1000000149	1609340407526	revised	Î
	MUFFINS THIS MORN - THANKS! QPV	W8BO	665	0	-0.8000000119	1609340399105	new	
	LIST OF STATIONS: N5JST	KC4ZGP	1398	22	0.2000000298	1609340352164	revised	
		KD4YDD	1503	17	0.1000000149	1609340278851	revised	
		KX4UK	1249	5	0.2000000298	1609340278111	revised	
CQ REPLY SNR INFO STATUS	Saved Directe	КС8МСҮ	952	-3	0	1609340277737	revised	
CAT/S 800 1000 1200 1400 1600 1800		WE4SEL	842	-1	0	1609340277692	revised	
		K5MKS	649	-6	0	1609340277622	revised	
-80 15:00:06 40m		NOLSD	602	-5	0.1000000149	1609340277592	revised	
-60		WS3H	800	13	0	1609340274787	revised	
-40 14:59:54 0m -40 14:59:48 40m		VA3OZO	747	-2	0.1000000149	1609340262419	new	
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## A few days later, someone else jumped in with a helper program called NetControlJS8 (not released yet):

And yesterday, Gordon posted the first draft of his proposed protocol.<sup>1)</sup>

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.