Real-time scoring, audio, and video for SAC 2013

Installation instructions

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Background

- The National Team Contesting trial is intended to increase interest in ham radio and to make it more media-ready and spectator-friendly
- For team member stations, mandatory online scoring is done through cqcontest.net
- Audio and video streams are especially useful for journalists and non-hams, and are strongly encouraged
- All of the real-time scoring and streaming services are free of charge as such

This document walks you through the needed setup

What do you need?

- An internet connection (upload >100kbps for audio & video, otherwise GPRS is enough)
- A logging program (Win-Test, N1MM, TR4W, ...)
- Audio connected from your radio to the computer
- A built-in webcam or USB webcam
- A user account at http://www.justin.tv

What do you need to do?

- Register at http://cqcontest.net with your contest callsign
- Set up your logging program for submitting online scores
- Register at <u>http://www.justin.tv</u>, choose for example your callsign as the account name
 - Configure an audio + video stream using the web-based interface at justin.tv

OR

 Download the free Adobe Flash Media Encoder and configure the stream (much greater flexibility, stereo audio for SO2R, etc.)

Cqcontest.net: Online scoring (1/2)



Cqcontest.net: Online scoring (2/2)

- At the top of any page at <u>http://cqcontest.net</u>, press
 "Help" and choose the logging program you are using
- On the new page you will find detailed instructions (including screenshots) that show how to set up your logging program for real-time scoring
 - N1MM and TR4W: Built-in real-time scoring
 - Win-Test: Download a small piece of software
- Report total score and either full band-by-band numbers or total QSOs + mults

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	RT3T		2013-08-24 07:17:1
	RAOCHK	- 5MContest	2013-08-24 07:07:0
	RA9AP		2013-08-24 07:18:2
	RV3ZN	- AAlest	2013-08-23 06:52:0
	UA3QAM	- OARTest	2013-08-22 02:23:5
	RT95	- controlat	2013-08-24 07:49:2
	UR7MZ	- Writelog	2013-08-24 09:40:0
	RA9MX/9		2013-08-24 06:32:4
	RU6CS	- UcxLog	2013-08-21 08:22:0
	RZ3Z		2013-08-22 13:07:0
	UR5IHQ	- SkookumLogger	2013-08-23 19:14:3
	EW6GF	210	2013-08-20 15:04:0

Audio and Video

- Many radios have an audio/line out connector in their rear panel. Connect the signal to your soundcard's "Line In"
 - The soundcard's normal microphone input may not be ok, because the driving signal level can be too high
 - If you have a Microham MK2R+ or something similar, you can get the audio through the "USB Audio Codec" that it creates on the computer
- Any webcam with a USB cable will do
 - Try to find an interesting camera angle that shows some of the equipment and you using it
 - DON'T show the VFO frequency!
- The next pages give detailed info on how to stream your audio and video through <u>http://www.justin.tv</u> so that it is viewable at <u>http://cqcontest.net</u>, where also your score is

Basic streaming (1/2)

- 1. Log in at <u>http://www.justin.tv</u> with your user account
- 2. Click "Broadcast Now" in the upper right corner

UStin.tv Live Channels v

Start

– Offine

3. Click "Allow" to open your webcam connection

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			3 Click "Start"
			That's all there is to it
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		ere to start y	our stream atter
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Click here to edit audio/video settings (next page) before pressing "Start"

Basic streaming (2/2)

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Advanced streaming (1/2)

- Enables stereo audio for SO2R operators and gives greater streaming flexibility (bitrate, etc.)
- Uses Adobe Flash Media Encoder software instead of the web-based broadcast interface
 - Log in at <u>http://www.justin.tv</u>
 - Download from http://www.justin.tv/broadcast/adv_other and install
 - Also press the "Config File" button on that page and save the xml file to a determined directory on your hard disk
 - Rename the xml file to <your_justintv_username>.xml
 - Start the Adobe Flash Media Encoder program
 - Choose File -> Open Profile, and load the renamed xml file (Don't worry about the "Log File" and "Profile Validation" pop-up windows)
 - Edit the audio and video settings. **The next page can be used as a guide.** It is configured for stereo audio and a low bitrate H.264-encoded video.
 - Start streaming by pressing "Start". You can move between the "Encoding Options" and "Encoding Log" tabs while streaming.

Advanced streaming (2/2)



The End Result

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dedicated SAC National Team Contesting page:

http://cqcontest.net/groups/nationteams.php

(Groups -> National Teams)

If you have difficulties starting the stream at <u>http://cqcontest.net</u>, load it once directly in another browser tab through <a href="http://www.justin.tv/<yourusername>">http://www.justin.tv/<yourusername>

Getting it Running

- Please test your setup well in advance of the contest!
- Check that your score gets uploaded: <u>http://cqcontest.net/arch/testscore.php</u>
- Check that your audio/video stream works: <u>http://www.justin.tv/<yourusername></u> (remember to provide your justin.tv user name when registering at cqcontest.net with your contest callsign!)
- Feedback will be much appreciated
- Good luck, and enjoy the contest!