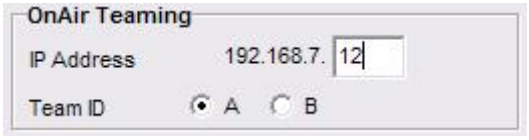
How to Setup On-Air Teaming

On Air Teaming is used when you want to have a live backup machine for your On Air. Using this configuration means that if the first On Air machine (A) dies for any reason, the second machine (B) takes over. When the A machine has been repaired and it is returned to the setup and becomes the backup machine. It will not have to take over as the primary machine until the current primary dies.
Note: When configured for teaming, use of store forwarding audio is not recommended or supported.

Configuring the Teaming Connection

To configure the machines, in the On Air configuration under the General tab enter the IP Address of the other machine used for the teaming. Also select whether this machine is the A machine or the B machine. Do the same on the second machine.

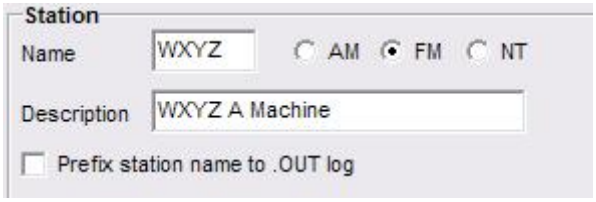
Machine A



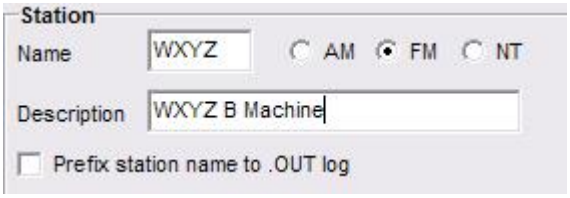
Machine B

When naming the On Air machine, you must call both machines by the same name. So, in the Name section both the A and the B machine must be called using the same call letters. In this case it is WXYZ. Both the A and the B machine will be called WXYZ FM. You can make a distinction of the two machines using the Description field if you would like.

Machine A



Machine B

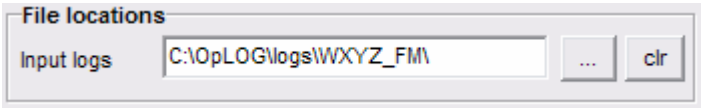


Click the save button on the bottom right hand side of the screen.

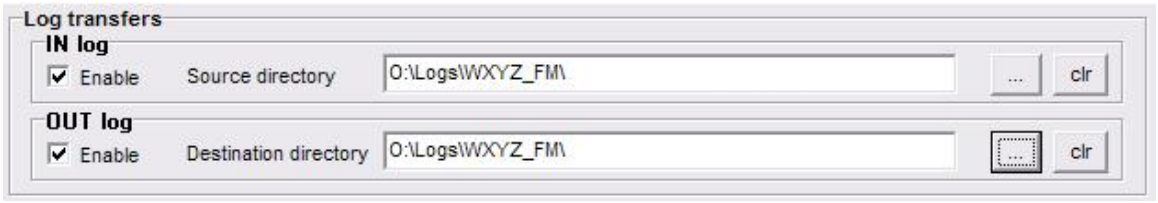
Configuring the Use of Logs

For the teaming setup to work properly the two On Air machines will need to see the same daily log. This is handled by storing the logs in a central location as apposed to directly locally on the On Air machine itself. The location of the logs is up to your discretion, but here is the most common location. Create a folder on the root of the O: drive called LOGS. In the Logs folder create a folder to store the logs for this station for example WXYZ_FM. Make sure to use the actual call letters used to name the two On Air machines.

When setting up the Log Location in the general section still use the local drive letter as seen in this example:



Next go the Store Forward section of the On Air configuration. Here is where we will tell the system to copy the logs from the server to the local drive. In the Log transfers section enable both the IN log and OUT log transfers. Select the location of the centrally stored logs as the Source and Destination directory.



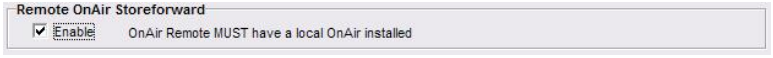
Make sure to click the save button on the bottom right hand side of the screen. Then click on Done.

Restart both of the On Air machines. And the first one that comes up will be the primary and the backup will be the second machine to start up.

Connecting to the On Air System

To operate the system you will need to connect to the On Air using On Air Remote. This will be run one a third computer. This will allow you to have full control of the system no matter which machine is the master either A or B. This machine can also act another level of redundancy. If this On Air Remote system has a second hard drive installed, the On Air machine can copy the audio library to the Remote machine and this can be used in the event that the network fails entirely. To configure this, follow these steps:

1. Setup two machines for On Air teaming
2. Setup a machine for On Air Remote
3. Install iMediaTouch On Air on the Remote machine as a stand alone station, audio on O: and logs on C:\OpLOG\Logs\WXYZ_NT
4. Ensure that there are two hard drives installed in the two On Air machines as well as the Remote machine. One is the C: drive and the second for the audio backup
5. Label that backup audio drive the same drive letter on all three machines.
6. Enable store forward for the two On Air machines to store forward the relevant categories locally to the backup audio drive. (see iMediaTouch Backup Scenarios for more details)
7. In the store forward options of the two On Air machines enable the Remote OnAir Storeforward.



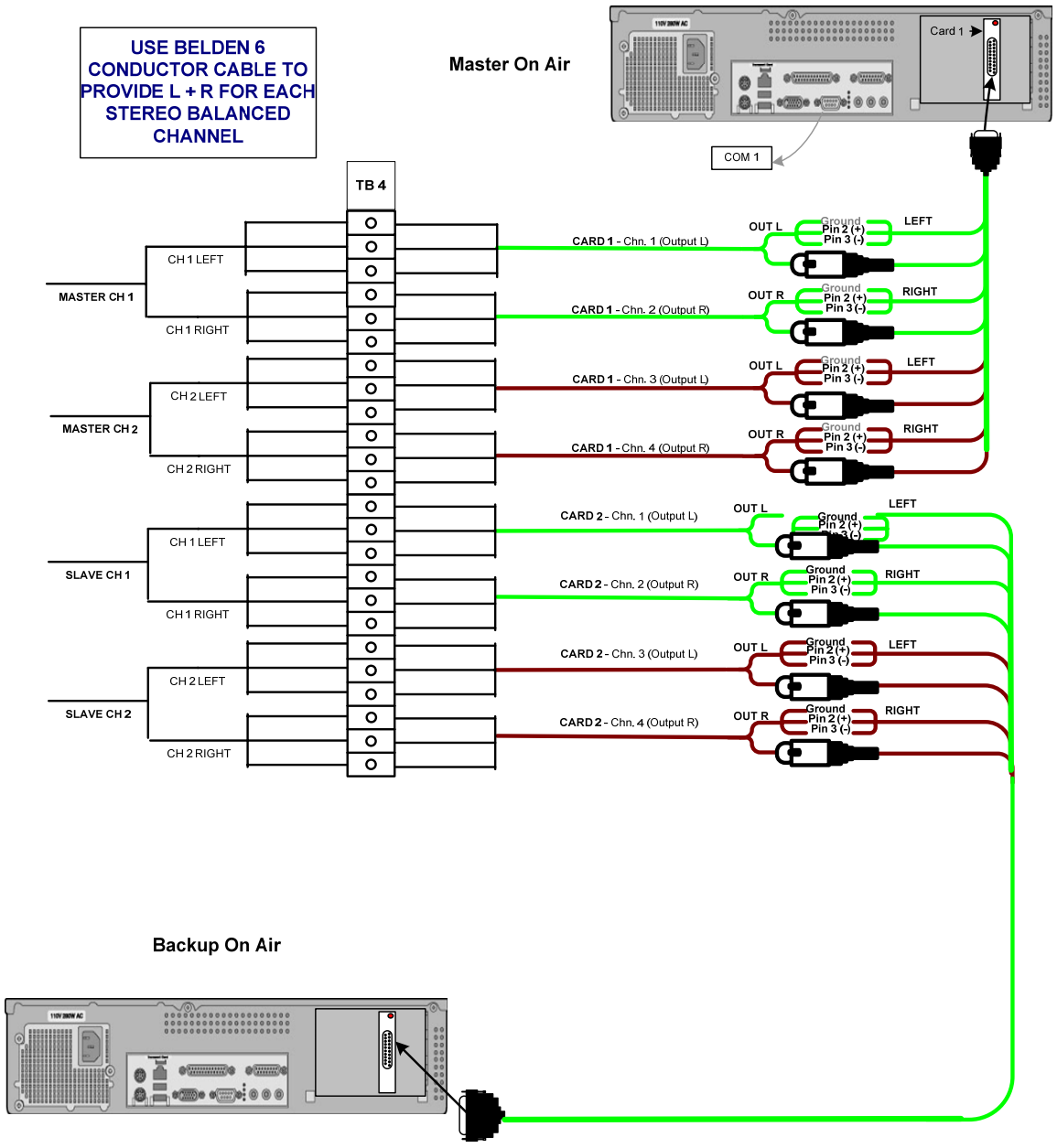
8. If the two On Air machines fail, you can quit the Remote software on the Remote machine and run the On Air that was installed. It will continue to run with the backup library.

Note:

You may want to run Second Copy to copy the logs form the central location to the Remote Machine log location. This will help in the event that the server has died as well.

Wiring

Because the backup machine does not actually play audio you can wire the audio to the same locations without having to worry about double audio. The backup machine merely follows along with the master machine. You will find diagrams of how this could be put together at the end of this document.



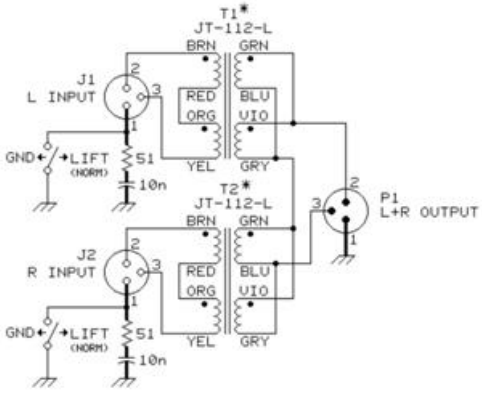
OPTION 1

PROPOSED CIRCUIT FOR COMBINING TWO BALANCED INPUTS TO ONE FROM ON AIR MASTER/BACKUP

CIRCUIT SUPPLIED BY JENSEN

NOTE: THIS IS A PASSIVE CIRCUIT REQUIRING NO EXTERNAL POWER SUPPLY

STEREO TO MONO COMBINER FOR BALANCED SYSTEM



NOTES:

1. SOURCES DRIVING L & R INPUTS SHOULD HAVE OUTPUT IMPEDANCES UNDER 200 Ω TO MINIMIZE CROSSTALK AND DISTORTION.
2. LOAD RECEIVING L+R OUTPUT SHOULD HAVE INPUT IMPEDANCE OF 10 kΩ OR HIGHER ("BRIDGING").
3. UNDER TYPICAL CONDITIONS OF 100 Ω SOURCES AND 20 kΩ LOAD, CROSSTALK WILL BE LESS THAN -55 dB.
4. MAXIMUM INPUT LEVELS ARE +21 dBu @ 20 Hz OR +25 dBu @ 30 Hz. FOR HIGHER LEVEL HANDLING, +24 dBu @ 20 Hz OR +28 dBu @ 30 Hz, USE JT-123-SL.
5. FOR IN-PHASE INPUTS, L+R OUTPUT WILL BE SAME LEVEL AS EITHER INPUT.
6. RC NETWORKS AT INPUT SHIELDS SUPPRESS RFI DUE TO CABLE STANDING WAVES. RESISTORS ARE 5%, 1/4 w CARBON AND CAP IS 20%, 100 V DISC CERAMIC TYPE. KEEP LEADS SHOWN AS | VERY SHORT AND DIRECT.

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OPTION 2

PROPOSED CIRCUIT FOR COMBINING TWO BALANCED INPUTS TO ONE FROM ON AIR MASTER/BACKUP
CIRCUIT SUPPLIED BY JENSEN
NOTE: THIS IS A PASSIVE CIRCUIT REQUIRING NO EXTERNAL POWER SUPPLY