Fully redundant Playout System - Case 1
OnTheAir Node + OnTheAir CG with Blackmagic-Design Hardware

OnTheAir Manager

Send schedules via ethernet

Shared Storage

Control router via ethernet

Videohub

Automatic Changeover

To Air

OnTheAir Node

CG input

CG output

MacPro 1

PCI - SLOT 4

PCI - SLOT 3

Decklink HD Extreme

MacPro 2

PCI - SLOT 4

PCI - SLOT 3

Swip - SLOT 4

Decklink HD Extreme
Some explanations on Case 1

**OnTheAir Node and OnTheAir CG:**
OnTheAir Node must be configured to output from video board number 2; OnTheAir CG must be configured to output from video board number 1.

You can see that you need to connect:
- From board number 2, the **OnTheAir Node output** to one of the “Source” (SDI-IN) of the Blackmagic-Design Videohub.
- From board number 1 - Channel A, the **OnTheAir CG input** to one of the “Destination” (SDI-OUT) of the Videohub, and the **OnTheAir CG output** to one of the “Source” (SDI-IN) of the Videohub.

The advantage of a configuration that uses a Video router such as the Videohub is that this is the safest way to handle “Live” events as you will be able to select another source for your output when you will go to Live but keep OnTheAir CG overlay graphics on top of video.

**Controlling the Videohub**
OnTheAir Node can communicate with any type of Videohub. If your Videohub has an Ethernet port, you can access to it directly provided it is in the same Network as OnTheAir Node. If your Videohub has no Ethernet port you must first connect it to any computer on your Network that has the Videohub drivers installed (it can be the computer where OnTheAir Node is installed).

**OnTheAir Manager**
OnTheAir Manager can be installed on a computer that has OnTheAir Node installed there is no problem with that, but you may want to run it from a different computer. If you start OnTheAir Manager with the alt key pressed down, you can change the location of the database and save it on the shared storage so in case this computer crashes, you can still access the database. Note that only one computer at a time can access this database. You should also backup frequently this database.

**Storage:**
All Media, playlists, schedules, logos, CG projects, etc are stored on a shared storage. It can be any SAN or NAS provided it can mount on the Mac and that the read rate is high enough. A shared storage among the 2 playout systems reads the same media and you do not need to make sure that the media is online on the 2 playout systems. For safer operations, make sure that you have a backup storage of your main shared storage. Make sure that the folder structure is the same in both storage.

You can also decide that each playout will read the media from its own local storage (internal or external). This means that you have to consider your workflow carefully so that each storage is an exact copy of the other and that you have automatic backup.

**Automatic Changeover**
The automatic changeover is handled by an external hardware. This hardware analyses two or more video signals and then, based on the predetermined settings, will switch to the second input if, for example, there are more than two seconds of black on the first video signal.

**What do you need?**

**Softron Products**
2 licences of OnTheAir Node + HD
2 bundles of OnTheAir CG + logo option for OnTheAir Node
1 licence of OnTheAir Manager

**Other Products**
1. One **shared storage** with enough data rate to sustain 2 streams of video and the copy of files at the same time.
2. Two **MacPros**. check on our website for System requirements.
3. A **Decklink HD Extreme** for OnTheAir CG (because you need the keying function of the card), any other **Decklink card** for OnTheAir Node, as you just need a SDI output.
4. **Displays**: there is no need of a display for the OnTheAir Node computers, only the computer running OnTheAir Manager will need a display.
5. **Videohub**: you can use any Videohub available remember that if it has no Ethernet port, you’ll need to connect it in USB to any computer with videohub drivers installed.
6. An automatic **changeover system** (Evertz, Miranda,…).
7. And of course cable connections, etc…