HD Radio Interface information for the Sage Digital ENDEC

The ENDEC will send messages to an HD Radio Exporter that will display text information on HD radios. The amount of information and its format is determined by the receiver.

Sage has no information on how to configure your Exporter, you'll need to work with your Exporter manufacturer for that. We do know that at least some models/versions of Exporters from these companies were reported to work with the ENDEC by iBiquity (Now Xperi) in 2015: BE, GatesAir, Continental, Nautel. This information is now out of date. Check with your Exporter provider.

The ENDEC has supported HD Radio since 2009, however, you should be using the latest version of the ENDEC (Rev95 or later) and of ENDECSetD (2.56 or later) if you are just starting to use HD Radio with the ENDEC.

Basic Interface information

The ENDEC interfaces to the Exporter via your LAN using IP and UDP. The default ports are 11000 from the ENDEC to the processor, and port 9020 for the Exporter to the ENDEC. The output port number from the ENDEC into the Exporter (11000) can be changed on both the ENDEC and Exporter, the input port to the ENDEC is fixed at 9020.

You must open a hole in your firewall to permit these UDP ports.

Configuring the ENDEC

To use HD Radio with the ENDEC, you must build a peripheral definition using ENDECSetD.

1) Have, or download, the latest settings file from your ENDEC.
2) Open the file.
3) On the Peripheral tab, click the "add new peripheral" button.
4) Enter a Peripheral Name – this name is for your reference only.
5) Use the peripheral type dropdown box to select HD Radio Exp.
6) Enter the URL of the exporter, for example, 192.168.1.51. If you need to use something other than the default output port, add a colon, then the port number, for example 192.168.1.51:11003
7) Use 0 for the station unless you are using multiple exporters and you don't want to send every alert to every exporter. In that case, enter the number of the station you want to use for this exporter, 1, 2, 3, or 4. If you do want to send the text of every alert to every exporter all the time, use station 0.
8) Click Save this peripheral.
9) Save the file.
10) Upload to the ENDEC.

Verifying operation

Once the ENDEC has restarted following the upload of your modified settings file - on the ENDEC's web page, click the tools button, then the HD Radio button under "Stats". You will see an indication that the exporter is reporting that EAS is available or not.