How to receive audio in Edge/Radius from Dante Virtual Soundcard.

This tech tip will walk through the necessary steps required to receive audio in a SymNet Edge or Radius DSP from the Dante Virtual Soundcard running on a PC or MAC laptop.

The Dante Virtual Soundcard software allows a PC or Mac to connect to a Dante audio network. Dante Virtual Soundcard uses the Ethernet port on the computer to communicate with a network of other Dante enabled devices. No special hardware is required other than installing Dante Virtual Soundcard on a conventional PC or laptop.

Audio applications use the Dante Virtual Soundcard as they would any standard ASIO or Core Audio sound card.

Sending audio from your laptop to the DSP using Dante has many benefits including but not limited to: testing the Dante network, sending test tones or pink noise to the DSP outputs, and tuning the speakers with known audio content.

Another application might be to play recorded content in an audio installation, such as intermission messages or sound effect playback in theaters. There are certainly many other useful applications so be creative.

What you will need:

- SymNet Composer
- SymNet Edge or Radius
- Dante Controller (www.audinate.com)
- Dante Virtual Soundcard (DVSC) (www.audinate.com)
- An ASIO capable program such as Cubase, Logic, Sound Forge, Winamp

In this example Winamp will be utilized as it is a free download available on the web. From the Winamp website the ASIO Output Plugin will also need to be downloaded.

1) Open Winamp and go to Options->Preferences (Ctrl + P).
2) Next, click on Output section of “Plug-ins” and choose the “ASIO Output Plugin [out_asio.dll]” to select the ASIO driver for Winamp.
3) The Config ASIO dialog will pop up, and the Dante Virtual Soundcard will need to be selected.

![Config ASIO]

4) Launch the Dante Virtual Soundcard by clicking the Control Panel button.
5) Turn on the Dante Virtual Soundcard by clicking the Power button. It will turn green when active.

![Dante Virtual Soundcard]

6) Open Dante Controller located at Start->All Programs->Audinate->Dante Controller.

7) The Dante Device Network Name of the PC or MAC running the Dante Virtual Soundcard (DVSC) should be visible on the Routing page. In this example the name of the Dante network device is rcurright-lap1. Write this name down for a later step.

![Dante Controller]

8) Next, click on the Device Status tab, and then double click on the device name. In this case it is rcurright-lap1. This will launch the Dante Controller Device View.
9) Click on the Transmit tab and then label all channels which you would like to receive in the Edge or Radius.

10) Now, on the Routing tab, expand the device in the upper area of Dante Transmitters and confirm that the two named channels are now listed.

Since Winamp is being used, only 2 channels are needed to carry a stereo signal which has been named bgm1-L and bgm1-R in this example.

11) Next, open SymNet Composer, locate hardware (Ctrl+Shift+L), and then enter the design view by double clicking on the Edge or Radius DSP icon.

12) In the Toolkit expand “Dante Transmit and Receive Flows” and drag a New Transmit/Receive Flow into the design.
13) A new Dante flow will be created and Dante Flow Module Properties will pop-up.

- Name for new Dante Flow: can be anything and is only for organization in Composer.
- Channels in Flow: can be 1-8 channels, although this example uses 2 for stereo content from Winamp.
- Place Dante Flow Module: set to receive.
- Source: check the box for External Dante Device Network Name and enter the network device name from step 7. It must be typed exactly as displayed including any special characters or spaces in the name.
- Type: unicast.
- Channel names: name both channels with exactly the same names given in step 9 using Dante controller.

14) Wire the Dante modules outputs into any module input or analog output. In this example Dante is wired into a stereo matrix mixer.

15) Push the site file to hardware.
16) In Dante Controller on the Routing Tab with Dante Receives and Dante Transmitters expanded the Edge or Radius DSP should now show a connection between the DVSC channels.

17) In SymNet Composer opening the GUI for the Dante Flow should show audio on the meters, as long as a song is currently playing in Winamp.

Note: setting Winamp to repeat a song or to playlist is suggested for continuous audio.

Note: Dante network audio is 24bit / 48khz audio. This means that playing a mp3 in Winamp which is 16bit / 44.1khz audio will cause it to be pitch shifted due to the 44.1khz audio being played at 48khz by the SymNet device. For true testing purposes use software that can play 24bit / 48khz audio, a common example being Sound Forge.