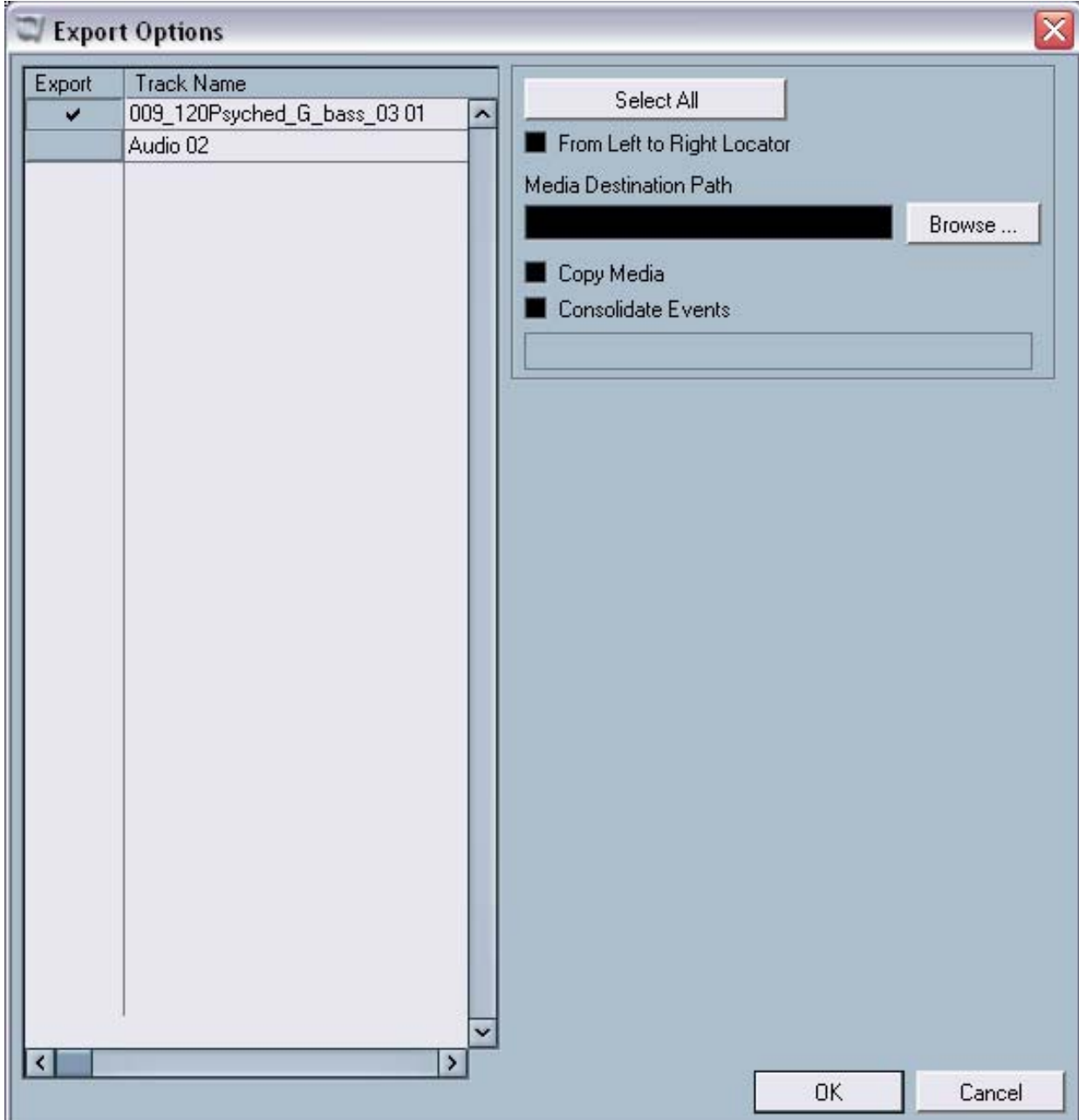


## Nuendo - Exporting and Importing OpenTL files

OpenTL is a file exchange format originally developed for Tascam hard disk recording systems. OpenTL facilities also appear in a variety of DAW's, making Nuendo project transfer reliable and solid. For example, a common use of OpenTL is to convert hassle free, between Nuendo and Pro Tools. If you import or export an OpenTL file to/from Nuendo, the resulting project will contain all audio files, edits, and track names made in the Tascam device or DAW, with all events positioned sample accurately on the time line.



### **Exporting OpenTL files**

First, make sure all audio files (in the audio Pool) and tracks (in the Project window) in the project are in mono (split stereo tracks and stereo interleaved audio files to dual mono) and all 16-bit or all 24-bit. The OpenTL specification does not include support for 32-bit audio files. If the project pool contains 32-bit audio files, these will not be exported. Make sure all referenced audio files are located on the drive to which you want to export the OpenTL file.

1. Open the Project Setup dialog from the Project menu, and set the Start time of the project to zero and the Record File Type to “Broadcast Wave File”.
2. Open the Pool, remove all video files and verify that all audio files are Broadcast Wave files, and that they are set to the same sample rate and bit depth. If this is not the case, select “Convert Files...” from the pool context menu and change the corresponding audio file attributes.
3. Select the “Prepare Archive...” option from the Pool context menu to make sure that every clip referenced in the project is located in the same folder.
4. Select “Auto Fades Settings...” from the Project menu to make Auto

Fades Settings for the Project - This creates smoother transitions between events by applying short (1-500 ms) fade-ins and fade-outs and so prevents holes in the exported file.

5. Select all events in the project window by using the key command [Ctrl]/[Command]-[A] and select “Crossfade” from the Audio menu. In the warning that appears, click the Continue button.
6. Select the “Save Project to New Folder...” option from the File menu. Locate the target folder to which you wish to export. This should be located on a hotswap StorCase® SCSI FAT32 drive (pre-initialized on MM dubber or MX-2424 as FAT32), USB2.0/FireWire External housing (pre-initialized in Windows Disk Management as FAT32 or NTFS), or a local FAT32 or NTFS volume.
7. Enter the desired Project Name, activate the “Freeze Edits” option and make sure that the options “Minimize Audio Files” and “Remove Unused Files” are deactivated.
8. Click OK.
9. Select “OpenTL...” from the Export submenu on the File menu. In the dialog that appears, locate the target hotswap FAT32 disk, select the appropriate project folder and click Open.

10. Select a name and location for the new file and click Save. The exported file will contain all audio track data, including file references, clip based volume automation, fade-in, fade-out, and crossfades.

11. Mount the DE100 Data Express SCSI carrier on a target dubber or further export in a conversion utility (e.g. MM-EDL).

The following will not be included in the resulting OpenTL EDL file:

- Any real-time mixing, EQ, effects settings, breakpoint automation tracks
- MIDI tracks made in Nuendo

The following is a basic OpenTL specification description:

- Maximum number of mono tracks: 999
- Supported sample rates (Hz): 44056, 44100, 44144, 47952, 48000, 48048, 42294, 42336, 45938, 45983, 46034, 46080, 50000, 50050, 88200, 96000
- Bit depth: 16, 24
- Audio file types: BWF (Broadcast Wave format), WAVE (Standard Wave), SDII (Sound Designer II)
- Volume formats: FAT32, NTFS, HFS+
- Automation support: clip based volume, breakpoint volume and mute
- Fade support: fade in, fade out, and cross fade
- Framerates (Fps): 24/24, 23.976/24, 24.975/25, 25/25, 29.97/DF, 29.97/NDF, 30/DF, 30/NDF

### **Importing OpenTL files**

1. Select “OpenTL...” from the Import submenu on the File menu.
2. Navigate to the location of the OpenTL file, select it and click Open.
3. You are now prompted to select or create a project folder for the new project. After specifying the name and location of the project folder, the new project opens containing all the audio files stored in the OpenTL file and their associated edits. Save the imported file as a Nuendo project.
4. Open the Pool, and select “Prepare Archive...” from the Pool context menu. This will copy any necessary external audio files into the local Nuendo project directory.
5. Select the Save option from the File menu.