SUPPORT GUIDE FOR

NOKIA AUDIO MANAGER

for the Nokia 5510 and Nokia Music Player HDR–1

NOKIA

Contents

1. INTRODUCTION

This guide briefly describes how to begin using Nokia Audio Manager. For more detailed information on the use of the Nokia Audio Manager, please refer to Online Help in the Nokia Audio Manager application.

The Nokia Audio Manager consists of the following features:

- add audio files to the Nokia Audio Manager database by recording from a compatible audio CD (in AAC format, from 64 kbit/s to 192 kbit/s compression rate supported)

- play tracks from a compatible CD

- downloaded audio files from the Internet (should be converted to .lse format before using with Nokia 5510 or Nokia Music Player HDR-1

- create custom playlists of selected tracks

- play tracks and playlists from the Nokia Audio Manager database

- create libraries of music collections to help organize audio files

- transfer selected tracks to the Nokia 5510 or Nokia Music Player HDR-1

- Delete selected tracks in your Nokia 5510 or Nokia Music Player HDR-1

- Format you new memory card for use with Nokia Music Player HDR-1

- personalize the Nokia Audio Manager settings

- equipped with Help Menu that answers your questions on the usage

Caution: Nokia 5510 supports only FAT file format; so do not format your Nokia 5510 to any other format (I e NTFS).

2. SYSTEM REQUIREMENTS

To install and run the Nokia Audio Manager, you need:

- An Intel-compatible PC (at least 266 MHz MMX and 64 Mb of system memory) equipped with Windows 98/Me, Windows 2000

  - Furthermore the software is not supported on a homemade PC with Windows 98 installed and/or a computer which has had its system upgraded from Windows 95/3.1 to Windows 98

- Display/Monitor: More than 800 x 600 pixels. More than 65,536 colors, High Color setting.

- Browser: Microsoft Internet Explorer or Netscape Navigator, versions 4.0 or higher.

- CD-ROM driver *: SCSI/ANSI X3T10-1048D standard. ATAPI/SFF-8020i standard.

- Recommended Soundcard **: Sound Blaster 16 (recommended)

- At least 35 MB of free disk space (preferably more), additional free space is required for music files

- For connection between the Nokia 5510 or Nokia Music Player HDR-1 and a PC you need a compatible USB 1.0/1.1 or above version of USB port in computer

- Internet connection*** for the use of CDDB (Compact Disc DataBase located in the Internet that has the album names and track titles stored for almost all of the Audio CD's available)

Notes:

* CD-ROM speeds may affect quality of encoding

** The soundcard is not required but without it playback of music with the Nokia Audio Manager on the personal computer is not possible

*** Nokia Audio Manager 1.0 can be used without Internet connection and the track names and the album name can be inputted by the user

Note: In this guide, all references to personal computers (PC) are also applicable to laptop computers.

The USB connection is only available for Windows ME/98/2000.

Nokia Audio Manager supports Nokia Music Player HDR-1 and Nokia 5510 phone.

The Nokia Music Player HDR-1 supports the following Nokia phones

Nokia 3310, Nokia 3330, Nokia 8250 and Nokia 8890	Voice call activation via headset
Nokia 8210, Nokia 8850 and Nokia 8850 Gold Edition	No voice call activation

3. AAC AND MP3

AAC

- Stands for "Advanced Audio Coding"

- Is a high-quality audio compression coding technology

- Provides high-quality audio reproduction at lower bit rates

- Near CD quality at 64 kbit/s

- Supported by the Nokia 5510, Nokia Music Player HDR-1 and Nokia Audio Manager

MP3

- Stands for MPEG-1 Audio Layer III

- Is a format for audio compression developed in the beginning of 1990's

- Near CD quality at 128 kbit/s

- Supported by the Nokia 5510, Nokia Music Player HDR-1 and the Nokia Audio Manager

4.   DIGITAL AUDIO TERMS

Ripping (encoding) – converting CD Audio to a digital audio format

Bit Rate (kbits/sec) – amount of data/second in the audio stream. The higher the bit rate, the more data used to express the sound, resulting in higher quality sound

Most common is 128 kbps (64 kbps for newer formats (WMA, AAC and MP3Pro)

NAM encodes into 64 kbps AAC by default

Wave file (.wav), uncompressed audio file, 11x the size of a typical MP3 file and about 22x the size of a typical AAC file

DRM (Digital Rights Mgmt) – Technology used to secure a user rights to a file and enforce use policies set by content owners

5.   LSE DIGITAL RIGHTS MANAGEMENT (DRM)

Nokia 5510 and Nokia Music Player HDR-1 support LockStream Encoding. So, when you buy tracks from I e Internet please verify that they are in LSE secured format.

Digital Rights Management (DRM) technologies aim to protect and manage rights and interests in digital information. Authors, publishers, enterprises, and other participants are empowered to specify and agree on the rules regarding the use of digital information. DRM technologies protect various forms of digital information, enable persistent application of the agreed rules throughout the life cycle of the information, and help to automate many e-commerce processes related to content use.

The Nokia 5510 supports high-quality AAC (Advanced Audio Coding). This AAC format is wrapped in Digital Rights Management technology, which assists that music cannot be uploaded to illegal websites that infringe copyright laws or distributed illegally. AAC is the preferred digital file format of a growing number of audio content companies.
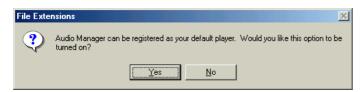
6.   INSTALLING THE NOKIA AUDIO MANAGER

1. Start the Nokia Audio Manager installation from CD-ROM

2. Follow the instructions on the screen, and note the following:

- on the 3rd installation screen you are asked for the "Destination Location" where to store the files created with the Nokia Audio Manager (Picture 1.)

- on the 7th installation screen you are prompted to choose whether to use the Nokia Audio Manager as your default player or not. It is advised to choose no if you have a lot of mp3 and AAC files stored already on your computer. Furthermore please notice that all the files imported to Nokia Audio Manager

are copied to Destination Folder that you chose on the 3rd installation screen. So, after adding files to Nokia Audio Manager you will have a duplicate of them, one unsecured (the original, in the original location) and the secure (in the Destination Folder). Please see Picture 2.

Picture 1. Choosing the Destination Location for the music files that you create in the Nokia Audio Manager.

Picture 2. Choosing whether to use the Nokia Audio Manager as your default player for media files or not.

Note: Some installations may require a reboot to complete the installation. This depends on what version of Microsoft's Windows Media Components is already installed on the PC.

7.   NOKIA AUDIO MANAGER

Nokia Audio Manager supports playing of various media file types (both audio and video). However only MP3, AAC and Audio CD tracks (in AAC format) can be transferred to Nokia 5510 or Nokia Music Player HDR-1. You can only export music with Nokia Audio Manager, so you can't get any music files from your device back to your computer.

7.1   CD RIPPING – GETTING MUSIC INTO THE APPLICATION

- Insert Audio CD

- Respond to prompt to retrieve track titles from the Internet (only Nokia Audio Manager 1.0)

    - If connected to Internet, click YES, otherwise, click NO

- If NO, edit track titles manually
- Click Read CD
- Encrypted songs are placed in default folder, added to database, playlist with Album Name is created

> **Q. Where are the ripped music files?**
>
> A. Default location = c:\My Music\Audio Manager Music\

7.2 WORKING WITH TRACKS AND PLAYLISTS – "MAKE A PLAYLIST" FEATURES

Adding non-CD Audio files to NAM

- Drag and Drop from Windows Explorer into NAM playlist window
- File>Add Tracks; browse for tracks, select single or multiple
- File>Search Hard Disk for Tracks

Note: A duplicate secure copy of each MP3 and AAC file that is added to NAM is automatically created into Default Location Folder (by default C:\My Music\Audio Manager Music\).

Note: NAM will not make any file conversions. So, you can not convert l e .wma or .wav files into MP3 or AAC format using NAM.

7.2.1 Add tracks using Drag & Drop

Open either a folder or a Windows Explorer and browse for media files. Select and drag the media files that you wish to add to NAM to Make a Playlist window. Playlist is created using the source folder name.

7.2.2 Add tracks using File – Add Tracks

Go to File menu and select Add Tracks. Add tracks file dialogue box will open. Browse the folders to search for media files and select the files that you wish to add to NAM.

7.2.3 Add tracks using Search HD for Tracks

Go to File menu and select Search HD for Tracks. NAM will search your HD for media files and add all the files that it supports. All the added MP3 and AAC files are automatically secured.

Note: After adding files to Make a Playlist Window you need to click on "Save tracks as Playlist" to create a playlist. Only files that are in the playlist can be transferred to Nokia 5510 or Nokia Music Player HDR-1.

7.2.4 Make a Playlist functions

- "Select Track from Database"

- Use to create custom lists of individual tracks in the database.

- Sort the track database by:

- Type, Title, Artist, Time (Length), Genre, Rating

- Search

- select sort field and type in name; list jumps to matching entries

- Edit track info

- Delete tracks

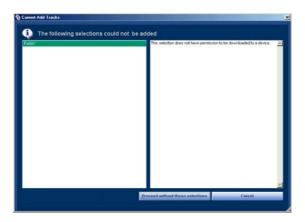- Deleting Multiple tracks, must right-click and select "delete tagged tracks"

8. TRANSFERRING SONGS TO NOKIA 5510 OR NOKIA MUSIC PLAYER HDR-1

Initiate transfer from:

- Make A Playlist window

  - right-click and select "send tracks to portable device"

- Copy to Devices window

  - Select tracks and click "Copy to Portable"

Color Coded Device Memory Status indicates space used (green), amount needed by selected music (yellow), and total available on player (gray), amount over capacity (red)

- NAM will warn user if selected files will not fit on the device

- If DRM license prohibits transfer or the selected files media type is not MP3 or AAC following screen will appear (Picture 3.)

Picture 3. Cannot Add Tracks window. Just click on "Proceed without these selections".

9.   COMMON PROBLEMS TRANSFERRING

Unable to communicate with portable device

- Dead/low battery
  - Try new battery
- Powered off
  - Check power setting
- Device not detected in Nokia Audio Manager when trying to transfer songs
  - Unplug USB cable, power off device, power on device, plug-in USB and click Refresh
- Device connected to PC prior to install of the NAM software (and device drivers)
  - With device connected, Check Device Manager for Unknown device or Unknown USB device. Remove that from Device Manager and disconnect device until after NAM is installed

10. OTHER ISSUES

Q. Music that is either ripped or added to NAM does not play on other PCs or on the same PC with another music application (like Real Jukebox, WinAmp, etc).

A. NAM creates locally encrypted files that are only meant to be played back on the PC using NAM or transferred to Nokia 5510 or HDR-1.

If the .LSE file is moved to another PC, error message appears when attempting to play it through NAM.

Even if the MainDB is copied along with the .LSE files to the new PC, error message will appear and you cannot play the tracks.