

# WORLD CUSTOMS ORGANIZATION ORGANISATION MONDIALE DES DOUANES

Established in 1952 as the Customs Co-operation Council Créée en 1952 sous le nom de Conseil de coopération douanière

HARMONIZED SYSTEM COMMITTEE

29<sup>th</sup> Session

NC0550E1 (+ Annexes I, II, III and IV)

O. Eng.

Brussels, 27 March 2002.

## **CLASSIFICATION OF MP3 PLAYERS**

(Item VIII.14 on Agenda)

#### Reference documents:

NC0497E1 (HSC/28) NC0510E2, Annex H/20 (HSC/28 – Report)

## I. BACKGROUND

- 1. At its 28<sup>th</sup> Session, the Harmonized System Committee held a preliminary discussion on the classification of MP3 players, taking into account the information and the comments of the Secretariat in Doc. NC0497E1, in which the Secretariat had taken the view that the storage of pre-existing MP3 files on the appropriate media incorporated in the apparatus, was a transcription of data onto data media, rather than recording of sound, as required by the text of heading 85.20.
- 2. One delegate pointed out that this question, i.e., whether or not sound was recorded, could, in his view, be answered in the affirmative for the devices incorporating a flash memory. However, while the Secretariat had based its arguments on the basis of traditional sound recording, loading MP3 files onto a flash memory should be seen as a new recording technology, covered by the expression "recording of sound". Consequently, the devices referred to in the document as having flash memory as the storage medium, should be regarded as recording apparatus of heading 85.20.
- 3. Another delegate indicated that some equipment classified in heading 85.20 did in fact not record sound, but recorded an electrical signal produced by another source (e.g., a radio). Therefore, there was, in his view, no distinction between that kind of apparatus and the MP3 players using a flash memory.
- 4. With respect to the device described in paragraph 6 (iv) of Doc. NC0497E1 (system consisting of a CD-ROM drive for reading MP3 format files) delegations could agree on a possible classification in heading 85.19.

Note: Shaded parts will be removed when documents are placed on the WCO documentation database available to the public.

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5. The Chairman concluded that at the next session, the Committee should answer the question what "sound recording" meant in the context of heading 85.20 (i.e., would it cover the recording of "acoustic vibrations" only or should it be taken in a broader sense to also cover the transcription of data files onto a flash memory). He noted that for the devices incorporating a radio receiver and an MP3 player, there seemed to be a consensus to classify them in heading 85.27. However, pictures along with the descriptions given in the document might help delegates to understand the various devices. The Delegate of Switzerland (being the proponent to have a separate subheading for "MP3 players" in heading 85.19) was invited to submit original pictures to enable the Secretariat to prepare the requested document for the next session.

## II. SECRETARIAT COMMENTS

- 6. During the intersession, the Secretariat received the requested pictures from Switzerland, and comments from the ICC, Canada and the EC. These submissions are reproduced in Annexes I, II, III and IV to this document, respectively.
- 7. As requested by the Committee, the Secretariat has reproduced in Annex I to this document the pictures received from Switzerland, which correspond to the descriptions set out below.

Portable, battery operated apparatus consisting of a housing incorporating a flash memory and a microprocessor in the form of integrated circuits ("chips"), an electronic system including an audio-frequency amplifier, an LCD screen and control buttons. The microprocessor is programmed for MP3 software. The apparatus has connectors for stereo head- or earphones, and can be connected to an automatic data processing machine for downloading MP3 files (using a parallel or USB port). It may have a flash card slot (see image 2 in Annex I). The storage capacity usually ranges from 32 to 64 MB.

(See Annex I, images 1 a, 1 b, 2 and 3)

Portable, battery operated apparatus consisting of a housing incorporating a flash memory and a microprocessor in the form of integrated circuits ("chips"), an electronic system including an audio-frequency amplifier, an LCD screen, a microphone and control buttons. The microprocessor is programmed for MP3 software. The apparatus has connectors for stereo head- or earphones, and can be connected to an automatic data processing machine for downloading or uploading MP3 or other files (using a parallel or USB port). The storage capacity usually ranges from 32 to 64 MB. The apparatus may contain additional software for an electronic organizer or a phonebook.

(See Annex I, image 4)

Portable, battery operated apparatus consisting of a housing incorporating a hard disk and a microprocessor in the form of integrated circuits ("chips"), an electronic system including an audio-frequency amplifier, an LCD screen, a microphone and control buttons. The microprocessor is programmed for MP3 software. The apparatus has connectors for stereo head- or earphones, and can be connected to an automatic data processing machine for downloading or uploading MP3 or other files (using a parallel or USB port). The storage capacity is 40 MB. The device contains additional software for an electronic organizer or a phonebook.

(See Annex I, image 5)

Portable, battery operated apparatus consisting of a housing incorporating a flash memory and a microprocessor in the form of integrated circuits ("chips"), an electronic system including an audio-frequency amplifier, an LCD screen, a microphone, a radio tuner and control buttons. The microprocessor is programmed for MP3 software. The apparatus has connectors for stereo head- or earphones and for a remote control, and can be connected to an automatic data processing machine for downloading or uploading MP3 or other files (using a parallel or USB port). The storage capacity usually ranges from 32 to 64 MB.

(See Annex I, image 6).

Apparatus incorporating a CD drive, a microprocessor, a flash memory or a hard disk, an LCD screen, control buttons, input connectors for analogue audio signals and for a microphone and output connectors for audio, S-video and composite video, parallel and USB connectors for uploading or downloading MP3 files to or from an automatic data processing machine or to or from a portable MP3 player and an ethernet port for connection to a home network or to the Internet. The connection to a TV set provides a graphical user interface for playlist editing and navigation, as well as display of animations. The apparatus is programmed to read MP3 and other audio compression formats, and can record analogue audio signals or voice. <sup>1)</sup>

(See Annex I, image 7)

Apparatus incorporating a CD drive, a microprocessor, a flash memory or a hard disk, an LCD screen, control buttons and output connectors for audio (earphones, loudspeakers or to a stereo system). The apparatus supports several formats (CD-DA<sup>2)</sup>, MP3, etc.) and reads standard CD's, CD-R and CD-RW. The functions of the apparatus can also be controlled with an infrared remote control.

(See Annex I, images 9 and 10)

A DVD player (434 x 95 x 290 mm) incorporating an MP3 files decoder.

(See Annex I, image 8)

A system consisting of a CD-ROM drive for reading MP3 format files, comprising software for reading MP3 files, a remote control and connection cables, to be built into a car. The system is connected to the car radio, which is not included.

(See Annex I, image 11)

8. Since the submissions reproduced in the annexes refer to the paragraphs of Doc. NC0497E1 which describe the commodities at issue, the Secretariat has prepared the following correlation table.

<sup>&</sup>lt;sup>1)</sup> Following the observations of Canada (see paragraph 11 of Annex IV), the Secretariat has revised the description compared with the one in paragraph 6 (i) of Doc. NC0497E1, by deleting the last sentence referring to other compression formats, such as AAC and MPEG4.

<sup>&</sup>lt;sup>2)</sup> "CD-DA" stands for compact disk, digital audio.

Doc. NC0497E1	Doc. NC0550E1	Observations
paragraph 5 (i)	paragraph 7 (i)	The sentence "It may have a flash card slot." was added
paragraph 5 (ii)	paragraph 7 (ii)	
-	paragraph 7 (iii)	This apparatus was included in the original pictures, but was not separately described in Doc. NC0497E1.
paragraph 5 (iii)	paragraph 7 (iv)	
paragraph 6 (i)	paragraph 7 (v)	
paragraph 6 (ii)	paragraph 7 (vi)	
paragraph 6 (iii)	paragraph 7 (vii)	
paragraph 6 (iv)	paragraph 7 (viii)	
paragraph 6 (v)	-	No picture available.
paragraph 6 (vi)	-	No picture available.

- 9. The Secretariat would like to remind delegates that the classification of DVD players will be dealt with under Agenda Item VIII.10. Therefore, it will not comment on the possible classification of the apparatus described in paragraph 7 (vii) above, in this document.
- 10. The ICC (see Annex II to this document) describes the transcription of preexisting data files from an automatic data processing machine or from the Internet, onto the internal storage medium of an MP3 player, as <u>recording</u> the data files (emphasis added). From this, the Secretariat concludes that ICC considers MP3 players to be sound recording devices of heading 85.20.
- 11. The Secretariat understands from the ICC note that there is apparently no standard definition used by industry to describe the expression "recording of sound". Having said this, the Committee's attention is drawn to the definitions of "recording" as reproduced by ICC in the said annex, which were taken from the American Heritage Dictionary (item 3a) (describing "to record" as "to register in permanent form by mechanical or electrical means for reproduction") and from the Le Petit Larousse Illustré (describing the French equivalent ("enregistrer") as "transcribing and fixing information on a sensitive support (discs, film, magnetic tape, etc.)"). When these descriptions are taken literally, it appears that neither of them would cover the transcription of data files from one medium to another, thus excluding MP3 players using the data file transcription technique only, from being regarded as "recording" apparatus.
- 12. The EC in its submission, takes the view that the transcription of data onto a flash memory falls within the expression "recording of sound" (see Annex III to this document), and, consequently, would classify MP3 apparatus incorporating a flash memory (card) (and described in paragraphs 5 (i) and 6 (ii) of Doc. NC0497E1) in heading 85.20. The EC note does not, unfortunately, indicate the rationale behind this statement.
- 13. With respect to the proposal to amend the Explanatory Note to heading 85.19 (see paragraph 4 of Annex III), the Secretariat has noted that the EC makes a subtle distinction between MP3 players using a flash memory, on the one hand, and those using a flash memory card, on the other hand, suggesting the classification of the former in heading 85.20 and the latter in heading 85.19. This distinction appears, however, not to be in line with the view expressed in paragraph 3 of the same annex, indicating that "This "flash memory card" is, to all intents and purposes, a recording device" (emphasis added). The EC may wish to clarify this point.

- 14. Having said this, the Secretariat suggests taking up any proposals to amend the Explanatory Notes at the next session, on the assumption that the Committee will (i) take a decision vis-à-vis the classification of the various MP3 players during this session and (ii) agree to amend the Explanatory Notes. It has, therefore, refrained from commenting on the proposed wording in the English and French texts.
- 15. Canada, on the other hand, considers that the transfer of an audio data file from one storage medium to another does not constitute sound recording (see paragraph 5 of Annex IV to this document). Furthermore, Canada suggests that the Committee should focus on the apparatus and not the data storage format, in classifying the goods. In this connection, the Secretariat would like to point out that MP3 is only one of the formats of electronic files containing "sound". Other formats are WAV, WMA and VQF.
- 16. With respect to the classification of the apparatus at issue, the Secretariat would like to remind delegates that the Committee agreed on a possible classification of the system described in paragraph 7 (viii) above, in heading 85.19 (see paragraph 4 of Annex H/20 to Doc. NC0510E2 (HSC/28 Report)), and that there appears to be consensus in the Committee to classify the devices incorporating a radio receiver and an MP3 player (see paragraph 7 (iv) above), in heading 85.27.
- 17. The Secretariat has prepared the following table reflecting the classification suggestions proposed by (or, where appropriate, based on the observations received from) ICC, the EC, Canada and the Secretariat:

Description in	Classification suggested by:				
paragraph 7	ICC	EC 3)	Canada	Switzerland 4)	Secretariat
(i)	8520.90	8520.90	8519.99	8519.99	8519.99
(ii)	8520.90	8520.90	8520.90	8520.90	8520.90
(iii)	8520.90	-	-	8520.90	8520.90 <sup>5)</sup>
(iv)	8527.13	8527.13	8527.13	8527.13	8527.13
(v)	-	-	8520.90	8520.90	8520.90
(vi)	8520.90	8519.99 <sup>6)</sup>	8519.99	8519.99	8519.99
		8520.90 <sup>7)</sup>			
(vii)	-	-	-	8521.90	- 8)
(viii)	-	8519.99	8519.99	8519.99	8519.99

18. As can be seen from items (i) and (vi) in the table in paragraph 17 above, the question for the Committee is whether or not the storage of MP3 files (or other type of files) (which are downloaded from the Internet or from an ADP machine) onto a flash memory card or a hard disk, is to be regarded as "sound recording" within the meaning of heading 85.20.

<sup>&</sup>lt;sup>3)</sup> The Secretariat has added the fifth and sixth digits, since the proponent did not indicate them.

<sup>&</sup>lt;sup>4)</sup> See the Annex to Doc. NR0202B1.

<sup>&</sup>lt;sup>5)</sup> See paragraph 8 above.

<sup>&</sup>lt;sup>6)</sup> Concerns the type containing a CD drive and a hard disk.

<sup>&</sup>lt;sup>7)</sup> Concerns the type containing a CD drive and a flash memory.

<sup>8)</sup> See paragraph 9 above.

# III. CONCLUSION

19. The Committee is invited to rule on the classification of the apparatus described in paragraph 7 above, and to indicate what action should be taken to give effect to this decision, taking into account the observations received from the ICC, the EC and Canada, reproduced in Annexes II to IV to this document, respectively, and the comments of the Secretariat in paragraphs 6 to 18 above.



Image 1 a.



Image 1 b.



Image 2.



Image 3.



Image 4.

#### **FEATURES**

- Parallel interface with PC/Notebook (USB Available)
- 10 buttons / Menu driven
- External headphone jack
- Built-in microphone
- 40 minutes of MP3 file play with a Clik! Disk
- ADPCM voice recording (170 minutes of recording)
- Cylinder type rechargeable Li-lon battery
- Display : Dot matrix : 128seg X 64com Size : 33mm(L) X 23mm(H)
- RISC type of CPU
- Easy function upgrade by S/W
- Internal rechargeable circuit



Image 5.



Image 6.

## MP3 & MS Audio Play

- Decoding Spec.
- MPEG 1/2/2.5 Audio Layer 3 Decoding & MS Audio 4.0
- Function
- Play/Pause/Stop/FF/REW/Sound control
- Sound Control Volume/Trable/Bass
- Volume/Trabi ■ S/N Ratio
- 90dB

  Downloading Time

  MB / 10seconds

## Voice Record & playback

- **■** Function
- Record/Playback/Pause/Stop/FF/REW
- Recording Time
- 170 Minute of Continuous Recording with a disk
- Voice File Upload/Download through Parallel Interface (USB Available)

#### Organizer

- Phone book (MS Outlook Express File Upload/Download through Parallel Interface (USB Available))
- Calendar
- **■** World Time

# **Portable Data Storage**

- File Down/Up load from/to PC
- Storing Data on a Clik! Disk
- Large Storage Capacity up to 40MB in a Disk

#### Accessories

- Manual
- Parallel cable with port
- PC Program
- Cylinder type of rechargeable Li-Lon battery (1EA)
- Headphone
- A Clik/Disk
- AC/DC Adapter

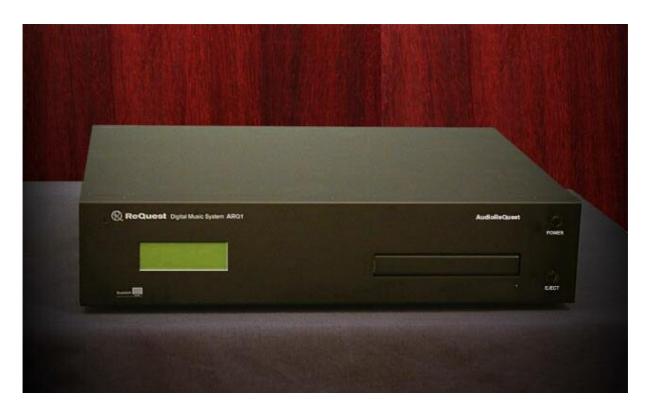


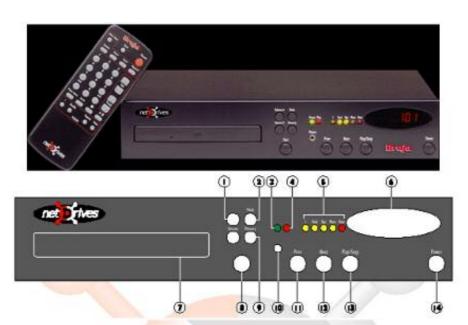
Image 7.

# Leistungsmerkmale:

- English OSD
- Super Fine Video Quality
- 100~230VAC Universal Netzspannung
- Unterstützt beides NTSC/PAL
- Digital Audio Ausgang sowie DolbyAC-3 2 Kanal oder dts audio Ausgang
- Unterstützt MP3 Format mit programing function



Image 8.



- I. Volume UP/Down Buttons
- 2. Mode Button
- 3. Power Indicator
- 4. Play Indicator
- 5. Mode Indicator
- 6. LED Track Index Display
- 7. Disc Tray

- 8. Eject Button
- 9. Memory Button
- 10. Earphone Jack
- 11. Previous Track Button
- 12. Next Track Button
- 13. Play/Stop Button
- 14. Power On/Off Button
- CD format auto-detection:

Automatically identifies CD-DA or MP3 media

#### Single CD capacity:

Can play over 200 CD-quality tracks of MP3 information, as well as standard audio CD's

#### Memory capacity:

63 memory locations available for arranging audio tracks into a playlist

#### Play modes:

Single track play, Sequential, Shuffle, Repeat, 10 Second Sampling

#### Audio output:

Output through earphones, multimedia speakers or RCA outs to any stereo system.

#### Remote control:

31-key Infrared remote control

### Media supported:

Standard CDs, CD-R or CD-RW media

#### Formats supported:

Supports CD-DA, ISO-9660, Joliet and Romeo formats MP3 CD, MPEG I & MPEG 2 Audio Layer 3 (except 256K bits and 320K bits)

Image 9.



Image 10.

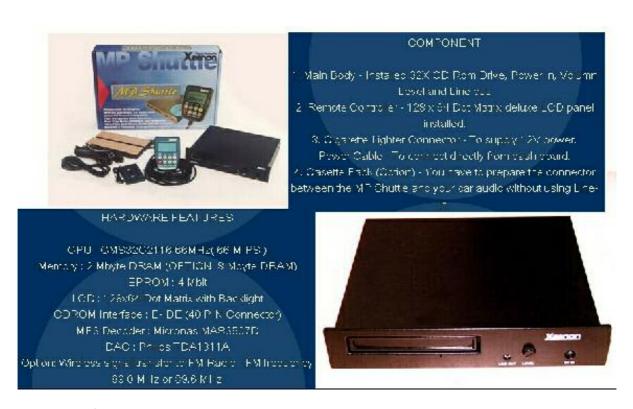


Image 11.

# NOTE FROM THE ICC

**Context**: The WCO has contacted the ICC regarding the definition of "sound recording" in the context of heading 85.20 and whether the transfer of MP3 files containing sound onto static memories would fit this definition.

The following paragraphs offer additional information on this topic.

## Recording of sound (and images): interpretation of definitions, tentative

Recording means "to register (sound or images) in a permanent form by mechanical or electrical means for reproduction" (American Heritage Dictionary). A similar specific definition is used in French when *enregistrer* (record, in French) applies to sound or images.<sup>1</sup>

Recording is **a)** a process and **b)** the result of this process. A record is something you can keep in a "permanent form" (read "storage"), ideally forever, in order to reuse it, or "replay" it in the case of a sound (or images), multiple times for "reproduction" of the original sound (or images) captured through this process. Optionally you could be able to duplicate and/or archive this record.

## Applying these interpretations to classical "recording" scenarios

recording a concert with a tape recorder

	Replay	
Acoustic vibrations	are translated, thanks to a microphone, into electric signals, in turn translated to magnetic signals stored on tape	magnetic signals stored on tape are used to regenerate acoustic vibrations

This is the most common and undisputed use of recording of sound.

- a) It's a one step process of recording a sound
- **b)** You end up with **a sound record** in the permanent form of analogue magnetic signals stored on a tape. Thanks to it, you can enjoy again (a subset of the acoustic vibrations of) the concert.

See Annex Ia for full definitions extracted from English and French dictionaries for RECORD/ENREGISTRER, DUPLICATE/DUPLIQUER and COPY/ COPIER verbs.

## Recording a radio station session<sup>2</sup>

Emitting		Recording		Replay
At the radio	At the radio	User's radio receiver	User's recorder	
station	transmitter	often embedded into the same device		
Original records, tape or CDs, or live session are converted to electric analogue signals <sup>3</sup>	which are transformed and sent through the air as analogue airwaves	These signals are received, converted to electric analogue signals and then to acoustic vibrations so you can listen to the radio "live"	These same electric signals are translated to magnetic signals stored on tape	Magnetic signals stored on tape are used to regenerate acoustic vibrations

- a) It's a multiple step process. In most cases, the radio session is based on original audio track records, either analogue or digital. These records are translated to electric signals, sent wirelessly, then they are received on your radio, and, during the final step, transferred to a recording device and "recorded" on a media, either analogue or digital.
- **b)** Even if you don't capture "real world" sound as in the first scenario, you end up with a record allowing you to replay this session.

So, according to the interpretation put on above,

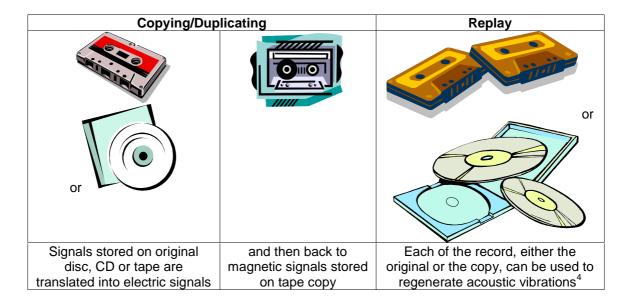
- a) the user device is doing a recording of sound,
- b) the user end up with a sound record.

Even if it's not acoustic vibrations "per se", and whether it being analogue or digital. This is coherent with classifications listed Note 3 of Annex.

 $<sup>^{\</sup>rm 2}$  This case is the one described in Note 3) of HSC Annex H/20

For legal reasons, in some countries, they are also archived for a well-defined reasonable amount of time

## Copying a tape



This is the most common use of copy. You end up with an **additional** record similar to the original one.

According to the interpretations put on above,

- a) the copying device is not doing a recording of "real" sound. If it's a device dedicated to duplication, it does not include any audio components,
- b) but you end up with a sound record.

Applying these interpretations to MP3-related scenarios

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Actually, when these are analogue records, the copy is never exactly the same as the original, the signals being a little « perturbed » during the process, thus resulting in a small but unavoidable loss of quality. Digital records do not have this problem.

#### "Ripping" an audio CD on your PC as MP3 files

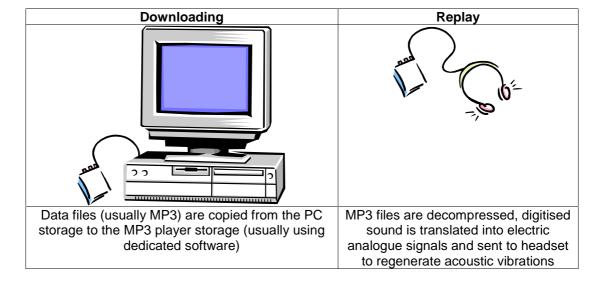
Ripping			Replay
Original record	Step 1: actual "ripping"	Step 2 (optional): converting to MP3	MP3 or WAV files and a multimedia PC
Digitized sound, with error correction information	Each digital audio track record of the CD is extracted, decoded, error correction information are removed, and digitised sound is saved (often temporarily) as a WAV file	Uncompressed WAV files are shrunken down as MP3 files using standardized sophisticated (but slightly destructive) algorithms <sup>5</sup>	After decompressing if MP3 files, digitised sound is translated into electric analogue signals thanks to a sound card and sent to speakers to regenerate acoustic vibrations

Once you have the proper software (Audio CD Ripper or CDDA utility or integrated "Jukebox" software) and hardware (CD-reader), you can extract data from your CD, this data being uncompressed digitised sound. By additionally encoding them as MP3 files, you save up to 90 % of data size. You end up with files on your PC you can replay at libitum using adequate software (MP3 player).

According to the interpretations put on above, this is mostly similar to the previously studied scenario of copying an audio tape,

- a) the ripping device is not doing a recording of "real" sound,
- b) but you still end up with a sound record you can replay.

"Downloading" MP3 files from your PC (or the Internet) to an MP3 player



<sup>&</sup>lt;sup>5</sup> See Annex Ib for definitions of MP3 and related concepts

Annex II to Doc. NC0550E1 (HSC/29/May 2002)

- a) It's a process of copying/moving a data file from a storage media, the PC's one, to another storage media, the MP3 player's. Usual PC storage is a hard disk and usual MP3 player storage is flash memory. But some ultra-portable PCs don't even include a hard disk, and some high storage MP3 player are based on a hard disk instead of flash memory. And the storage kind clearly has no impact on either the process or its result. It's not a recording of "real" sound. In fact, none of the two devices, in most cases, during the download process, know or check if it's actually a valid audio file or not;
- b) but you still end up with a sound record you can replay on your MP3 player.

## Conclusion: should MP3 players considered as recording of sound capable devices?

The difficulty, compared to a tape player for example, lays in the fact an MP3 player actually handles 3 usually separate features :

- a) a1/ Receive existing data files, transcription of audio files
- b) a2/ Store them, like a magnetic tape or other recording media
- c) Replay them, like a tape player or other audio players.

The last ambiguity is in the a1/ feature. Should we consider this data file transfer as a recording of sound?

Based on previous scenarios and definition studied, and on **common interpretation** of "sound recording" by people actually recording real sounds, **MP3 players are not doing a real "recording of sound"**<sup>6</sup>. And this is what their name implies, the fact they are replaying sound already recorded. But they are clearly recording the data transferred from the PC to their internal storage in a permanent form that is an optimised digital sound record! And even if the replay feature is the principal one, you can barely use the device without downloading songs into it<sup>7</sup>. So, **from a technical perspective, these devices are recording data files that are (a kind of) sound**.

Note, however, this is subject to very few exceptions. One or two devices, commonly named MP3 recorders incorporate additional circuitry (including analogue/digital converter, processing power, Line IN female jack) and dedicated software to handle an actual recording of an analogue electric signal into an uncompressed WAV file (MP3 isn't supported yet, since it requires a lot of processing power). These devices are capable of recording of "real" sound.

<sup>&</sup>lt;sup>7</sup> Some come preloaded with songs.

Annex II to Doc. NC0550E1 (HSC/29/May 2002)

### **Annex I, Definitions**

## Annex Ia, Definitions for Record, Duplicate & Copy

## American Heritage Dictionary

- **RECORD, transitive verb, 1.** To set down for preservation in writing or other permanent form. **2.** To register or indicate: *The clerk recorded the votes.* **3a.** To register (sound or images) in permanent form by mechanical or electrical means for reproduction. **b.** To register the words, sound, appearance, or performance of by such means: *recorded the oldest townspeople on tape; recorded the violin concerto.*
- **DUPLICATE, transitive verb, 1.** To make an exact copy of. **2.** To make twofold; double. **3.** To make or perform again; repeat: a hard feat to duplicate.
- **Copy, transitive verb, 1.** To make a reproduction or copy of. **2.** To follow as a model or pattern; imitate. See synonyms at imitate.

#### French, Le Petit Larousse Illustré

- ENREGISTRER I 1. Consigner par écrit (une information) en vue de la conserver. Enregistrer la déclaration d'un témoin. […] Il transcrire et fixer (une information) sur un support matériel. Le barographe enregistre les variations de la pression atmosphérique. ◆ Spécialmt.

  Transcrire et fixer (un son, une image) sur un support matériel sensible (disque, film, bande magnétique, etc.) afin de les conserver et de pouvoir les reproduire.
- **DUPLIQUER** 1. Faire un double, un duplicata d'un document. ◆ <u>Spécialmt</u>. Copier un enregistrement sur support magnétique, en faire un double. *Dupliquer une bande, une cassette*. 2.biol. Opérer la duplication de.
- **COPIER** 1. Reproduire à un ou à plusieurs exemplaires ; établir une copie. *Peux-tu me copier cette recette de cuisine* ? 2. Reproduire une oeuvre originale, chercher à imiter. *Copier les grands maîtres*.

#### Annex Ib, Definitions for MP3 & MPEG

#### extracted from www.MP3.com

#### What are MP3s?

MP3s are digital audio files that have been shrunken down while still maintaining their original sound quality

#### Why are they called MP3s?

MP3 is short for MPEG Audio Layer 3. MPEG refers to the Moving Pictures Experts Group, an organization that sets international standards for digital formats for audio and video. The file-shrinking technology itself was developed by the Fraunhofer Institute in Germany.

**Ripping**: Extracting songs from a CD onto your PC.

**Encoding**: Converting the uncompressed files (like WAV) into a format like MP3.

extracted from www.MPEG.org

#### What is MPEG?

**MPEG** (pronounced M-peg), which stands for **Moving Picture Experts Group**, is the name of family of standards used for coding audio-visual information (e.g., movies, video, music) in a digital compressed format.

The major advantage of MPEG compared to other video and audio coding formats is that MPEG files are much smaller for the same quality. This is because MPEG uses very sophisticated compression techniques.

## NOTE FROM THE EC1)

- 1. At its 28<sup>th</sup> Session, and on the basis of Doc. NC0497, the HS Committee examined the classification of MP3 players in the nomenclature appended to the Harmonized System Convention.
- The Committee considered that the essential point to be addressed was the meaning of the term "sound recording" in the context of HS heading 85.20. In other words, does this heading cover only the recording of "acoustic vibration", or should it be taken in a broader sense to cover also the transcription of data onto flash memory? The Committee decided to provide an answer to this question at its next session, in May 2002, on the basis of a new document.
- 3. The EC would agree to an affirmative response to the above-mentioned question. This means that the EC would also agree with the classification proposed by the Secretariat in paragraph 12 of Doc. NC0497, except in the case of the two apparatus incorporating a flash memory, which are referred to in paragraphs 5 (i) and 6 (ii) of that document. This "flash memory card" is, to all intents and purposes, a recording device, and for that reason the apparatus concerned are excluded from heading 85.19 and fall to be classified in heading 85.20, by application of GIR 1.
- 4. If the Committee shares this view, the EC would propose the following amendment to the Explanatory Notes to the HS Nomenclature :

Explanatory Note to heading 85.20. Insert the following text:

"The term "sound recording" also includes recording by methods other than those making use of the effects of acoustic vibrations, e.g., by recording data sound files, downloaded from an Internet page or a compact disc by an automatic data processing machine, onto the internal memory (e.g., flash memory) of a digital audio device (MP3 player).

This heading does not include apparatus that only reproduces sound from an external sound medium (flash memory cards; heading 85.19)."

5. In the light of whatever classification decision the HS Committee may make with regard to the apparatus referred to in Doc. NC0497, and of its reply on the meaning of the term "sound recording" in the context of HS heading 85.20, the Committee may consider it necessary to draft corresponding amendments to the Explanatory Notes to other HS headings, such as headings 85.19 and 85.20.

Original text French, except for the proposed amendment to the Explanatory Notes, which was submitted in English, French and Spanish.

#### NOTE FROM THE CANADIAN ADMINISTRATION

- At the 24<sup>th</sup> Session of the Harmonized System Review Sub-Committee (RSC), the Swiss Administration submitted a paper regarding <u>MP3 players</u> (NR0202E1) related to the proposal to amend heading 85.19.
- 2. During the discussion of that item it was agreed the question of whether the transfer of an audio file (i.e., a collection of data that can be converted to reproduce previously recorded sound) from a computer to an <u>MP3 player</u> constituted "sound recording" for classification purposes needed to be resolved. The Secretariat was asked to submit to the Harmonized System Committee (HSC) a request to determine the classification of various <u>MP3 players</u>; to that end, the Secretariat produced document NC0497E1.
- 3. Preliminary discussions were held at HSC/28 and it was decided to address the specific question of whether data transfer constitutes sound recording at the next session of the HSC and consider the classification of the goods listed in Doc. NC0497E1.

# Sound recording

4. The sixth edition of *The IEEE Standard Dictionary of Electrical and Electronics Terms* does not define "sound recording", but does include the following definitions:

<u>Sound recording system:</u> A combination of transducing devices and associated equipment suitable for storing **sound** in a form capable of subsequent reproduction (emphasis added).

- <u>Sound:</u> (A) An oscillation in pressure, stress, particle velocity, etc., in a medium with internal forces (for example, elastic, viscous), or the superposition of such propagated oscillations; (B) An auditory sensation of such propagated oscillations.
- 5. Based on those definitions, Canada considers "sound recording" to be the process of capturing sound, converting it to a suitable format and storing it for subsequent reproduction; therefore, the transfer of an audio data file from one storage medium to another does not constitute sound recording.
- 6. This is consistent with the position expressed by the Secretariat in document NC0497E1 and with the definition of "sound recording apparatus" in the Explanatory Note to heading 85.20 (page 1481). The same principle (i.e., that copying previously recorded sound does not constitute sound recording) would apply regardless of the storage medium.

#### **MP3 Players**

7. Canada is concerned that the "MP3" file format is being over emphasized; it is simply a data storage format.

- 8. In 1988 the Movie Picture Experts Group (MPEG) was established as a working group of ISO/IEC in charge of standards for coded representation of digital audio and video. MP3 is short for MPEG-1 Layer 3, which is the layer that stores digital audio. Using advanced audio compression techniques MP3 can decrease the size of an audio file to less than a tenth of the original with minimal loss in quality. Although not the only format for digital audio files, it is currently the most common in commercial trade.
- 9. The term <u>MP3 players</u> is a commercial description of sound re-producing apparatus utilizing solid-state electronic storage media (as opposed to magnetic tape, CDs or DVDs) on which the audio file is stored in the MP3 format. The classification of the apparatus and the media would not change if the audio file were in a different format. The MP3 format is no more relevant to the classification of an <u>MP3 player</u> than is the video format (e.g. VHS or Beta; PAL or NTSC) to the classification of pre-recorded videotapes. Further, the ability to decode an MP3 format audio file does not necessarily indicate that the apparatus is what is commercially known as an *MP3 player*.

#### Classification of the goods described in Doc. NC0497E1

- 10. Canada agrees with the Secretariat that the goods described in paragraph:
  - 5 (i) are classified under heading 85.19 (subheading 8519.99) as sound reproducing apparatus without sound recording capability.
  - 5 (ii) are classified in heading 85.20 (subheading 8520.90); the microphone allows ambient sound to be captured and stored for reproduction.
  - 5 (iii) are classified under heading 85.27 (subheading 8527.13); the terms of that heading direct that the radio tuner determines the classification, regardless of what other sound recording or reproducing apparatus may be present.
- 11. Although we do not consider the goods described in paragraph 6 to be <u>MP3 players</u> of the type under discussion at the RSC, we offer the following comments :

# Paragraph 6(i)

The goods are described as having either a CD drive and a hard disk, or a CD drive and flash memory. Although the text indicates that the ability to read MPEG-4 format "can be added", that is not a reason to infer the goods may have a DVD drive when none is mentionned. If the description is inaccurate or incomplete, it must be revised. As described, the presence of an input connection for a microphone indicates the goods are capable of recording sound; therefore Canada feels they are properly classified under heading 85.20 (subheading 8520.90).

NOTE: DVD video is based on the MPEG-2 format; MPEG-4 is the Internet multimedia standard.

## Paragraph 6(ii)

As the goods reproduce sound stored on a compact disc or in solid-state storage, and there is no indication they are capable of recording sound, Canada agrees with the proposed classification under heading 85.19 (subheading 8519.99).

## Paragraph 6(iii)

The goods are described as a Digital Versatile Disc (DVD) player that is able to read MP3 format files. There is no indication of any data source other than the DVD drive; therefore, the MP3 files must be being read from a disc. The ability of the goods to decode MP3 files is irrelevant to their classification.

The classification of DVD players will be the subject of another agenda item; these goods should be classified in accordance with the decision to be made under that item.

## Paragraph 6(iv)

The goods are described as a Compact Disc (CD) player that is able to read MP3 format files. There is no indication of any data source other than the CD drive; therefore, the MP3 files must be being read from the CD drive. The ability of the goods to decode MP3 files is irrelevant; they should be classified as would any CD player. Given there is no indication of an ability to record sound, Canada agrees with the proposed classification under heading 85.19 (subheading 8519.99).

#### Paragraph 6(v)

Although the goods will be connected to a car radio, the radio is not included; thus, they are similar to those of paragraph 6(ii), rather than those of 5(iii). Canada agrees with the proposed classification under heading 85.19 (subheading 8519.99).

#### Paragraph 6(vi)

Canada agrees with the proposed classification under heading 85.27 (subheading 8527.21); the presence of the radio tuner directs the goods to that heading, regardless of what other sound recording or reproducing apparatus is present.

12. For consistency with the structure of the Harmonized System and to ensure the viability of the classifications for these goods, we suggest the Committee should focus on the apparatus and not the data storage format, both when classifying the goods and when considering any Compendium entries.