

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Audio, video and multimedia systems – General channel assignment of multichannel audio**

**Systèmes audio, vidéo et multimédia – Affectation générale des voies des systèmes audio à voies multiples**



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## AUDIO, VIDEO AND MULTIMEDIA SYSTEMS – GENERAL CHANNEL ASSIGNMENT OF MULTICHANNEL AUDIO

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The text of this standard is based on the following documents:

CDV	Report on voting
100/1706/CDV	100/1773/RVC

Full information on the voting for the approval of this technical specification can be found in the report on voting indicated in the above table.

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## INTRODUCTION

There are many multichannel audio formats and there will be new formats. These formats have a specific channel assignment such as a channel mapping and channel labels, but the basic channel assignments are not so different from each other. These can be unified to one common channel assignment as the general channel assignment. This general channel assignment provides audio devices and digital audio interfaces with the usage of unified channel assignments for any multichannel audio formats.

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## AUDIO, VIDEO AND MULTIMEDIA SYSTEMS – GENERAL CHANNEL ASSIGNMENT OF MULTICHANNEL AUDIO

### 1 Scope

This International Standard specifies the general channel assignment for multichannel audio formats. The general channel assignment as a channel mapping and labeling provides the unified usage of channel assignments for source devices, digital audio interfaces and sink devices. This standard excludes the specification of the exact position of each loudspeaker. It is aimed at consumer applications, but is not targeted for theatrical environments. Up to 32 labels for loudspeaker positions are specified, which can be used for all current multichannel formats.

### 2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE The general sequence of position labels is used: height, front/back, left/centre/right. Absence of a height letter indicates the middle layer. The other two planes are always indicated. See also Table 1.

#### 2.1

##### **top layer**

top (highest) layer of three loudspeaker-layers located at the top of the screen, alternatively at the top of the room; loudspeaker channels of the top layer are annotated with the letters Tp

#### 2.2

##### **middle layer**

middle layer of three loudspeaker-layers located at the vertical centre of the TV screen, alternatively at the same height as the height of viewer's ear

#### 2.3

##### **bottom layer**

bottom (lowest) layer of three loudspeaker-layers located at the bottom of the TV screen, alternatively at floor level of the room; loudspeaker channels of the bottom layer are annotated with the letters Bt

#### 2.4

##### **front left**

##### **FL**

loudspeaker position located at far left and centred vertically of the middle layer

#### 2.5

##### **front right**

##### **FR**

loudspeaker position located at far right and centred vertically of the middle layer

#### 2.6

##### **front centre**

##### **FC**

loudspeaker position located in the middle layer corresponding to the centre of the TV screen, as viewed from the seating area