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| **ITU-R BS.2094-0 建议书**  **(04/2016)** |
| **音频定义模型的通用定义** |
| **BS系列**  **广播业务 (声音)** |

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| **ITU-R 系列建议书**  （也可在线查询<http://www.itu.int/publ/R-REC/en>） | |
| **系列** | **标题** |
| **BO** | 卫星传送 |
| **BR** | 用于制作、存档和播出的录制；电视电影 |
| **BS** | **广播业务（声音）** |
| **BT** | 广播业务（电视） |
| **F** | 固定业务 |
| **M** | 移动、无线电定位、业余和相关卫星业务 |
| **P** | 无线电波传播 |
| **RA** | 射电天文 |
| **RS** | 遥感系统 |
| **S** | 卫星固定业务 |
| **SA** | 空间应用和气象 |
| **SF** | 卫星固定业务和固定业务系统间的频率共用和协调 |
| **SM** | 频谱管理 |
| **SNG** | 卫星新闻采集 |
| **TF** | 时间信号和频率标准发射 |
| **V** | 词汇和相关问题 |

|  |
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| **说明：**该ITU-R建议书的英文版本根据ITU-R第1号决议详述的程序予以批准。 |

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ITU-R BS.2094-0 建议书[[1]](#footnote-1)\*

音频定义模型的通用定义

（2016年）

范围

本建议书包含用于多声道音频配置的通用定义集，使用音频定义模型（ITU-R BS.2076建议书）对其进行描述。

关键词

ADM、音频、多声道、基于声道、轨道、元数据、bw64、交换、音频节目、BWF、沉浸式。

国际电联无线电通信全会，

考虑到

*a)* 基于信息技术的存储介质，包括数据光盘和磁带，已经渗透到采用无线广播的音频产品的所有领域，即非线性编辑、空中播放和存档；

*b)* 信号交换采用单一的文件格式极大简化了个别装备和远端演播室之间的互操作能力，它还便于编辑、空中播放和存档的综合操作；

*c)* 与目前可用的商业文件格式兼容可最小化在设备中采用一种新格式所需的行业努力；

*d)* 未来的音频系统将要求文件携带与文件相关联的元数据；

*e)* 未来的音频系统将使用不同的多声道配置（包括基于声道、对象和场景的音频），诸如ITU-R BS.2051建议书中所明确的；

*f)* 未来的音频系统将使用音频定义模型（ITU-R BS.2076建议书）来描述用于传输和交换的音频的技术格式；

*g)* 现存的和近期将制作的大部分音频将是使用一系列常用配置的、基于声道的音频；

*h)* 使用不同的元数据描述相同的音频配置将带来兼容性问题以及不必要的开支，

建议

对于将音频定义模型（ITU-R BS.2076建议书）作为元数据模型的任何音频交换，使用通用定义集来描述附件1中定义的任何音频配置。

附件1（规范性）  
  
音频定义模型的通用定义

# 1 引言

ITU-R BS.2076建议书，音频定义模型（ADM）是一种用来描述音频的技术内容和格式的元数据模型。它可以用来描述任何类型的音频信号，从而允许其正确渲染，不管其是基于对象、场景还是声道。尽管ADM具有很强的灵活性，也允许定义任何类型的音频格式，现存的绝大多数音频是基于少数通用的、基于声道的配置。因此，这些通用的格式在每次被使用时都需要明确定义是效率很低的。相同的格式被不同的机构或者应用程序用不同的方法定义也是有问题的。

为了一致、高效地使用ADM，制定了通用定义集。这些定义基于音频行业通用的定义，包括在ITU-R BS.2051建议书和ITU-R BS.775建议书中规定的，在文件和流中使用这些配置时应使用的定义。通用定义集旨在作为一种基础资源，为未来新增的定义提供基础。

# 2 通用定义的内容

由于现存的（和近期的）音频绝大多数是基于声道的，大部分通用定义将用于基于声道的音频。最初的定义集将聚焦于通用的、基于声道的配置。使用的另一个假设是 — 轨道格式是脉冲编码调制（PCM）的，因此其不包括编码的音频。

ADM包含定义音频所需的集中不同元素。这些元素既描述内容，又描述格式。通用定义集只包括格式元素，因为这些元素可以在不了解音频内容的情况下被定义。这些元素是：

• audioTrackFormat

• audioStreamFormat

• audioChannelFormat

• audioBlockFormat

• audioPackFormat

除了audioPackFormat之外，元素都与其他每一个元素紧密结合，用于每个声道定义。然而，这并不意味着全部四个元素都同时需要。使用通用audioChannelFormat/audioBlockFormat定义与专门的audioTrackFormat和audioStreamFormat定义是完全可以接受的。

# 3 通用定义的使用

通用定义作为一种可扩展标示语言（XML）文件而存在，其可由处理音频文件的应用程序本地存储，也可以远程引用。通用定义并不旨在由音频文件自己携带，但其存在的一个目的是减少音频文件中需要携带的元数据的数量。

任何读取音频文件的编码（包括ADM定义的音频（典型的有BWF、BW64、RF64））应旨在在读取音频文件本身所存储的ADM元数据之前先读取通用定义。音频文件和通用定义文件之间的关系见图1。

图1

**音频文件和通用定义文件之间的关系**



<chna>块包含对文件中每个轨道的audioTrackFormat和audioTrackFormat定义的ID引用。应首先在通用定义中查找这些引用，识别其是否包含IDs，如果没有，则应参考音频文件的<axml>块。当检测<axml>块中与内容相关的ADM元数据时，特别是audioObject元素，应注意其应该含有存在于通用定义文件中的ID引用，最有可能的是audioPackFormat ID。

# 4 通用定义集

通用定义集包括通用的、基于声道的配置，这些配置中的一些为公认标准，一些是常见的专有配置。定义包括用于与许多不同扬声器位置（包括ITU-R BS.2051建议书中的所有）关联的声道的audioChannelFormat定义集。这些声道定义的每一个都有用于PCM音频信号的、关联的audioStreamFormat和audioTrackFormat定义，来涵盖最典型的使用案例。用于各种扬声器组合的audioPackFormat定义集仅使用来自本通用定义集中的声道。

audioChannelFormat和audioPackFormat ID遵循此格式：

• audioChannelFormatID：AC\_yyyy0xxx

• audioPackFormatID：AP\_yyyy0xxx

其中前四位十六进制数字（yyyy）表示音频的类型。如果该值设置为0001，则音频类型为“DirectSpeakers”，如果该值设置为0002，则音频类型为“矩阵”，如果该值设置为0003，则音频类型为“对象”，如果该值设置为0004，则音频类型为0004“HOA”，如果该值设置为0005，则音频类型为“双声道”。最后四位数字（0xxxx）值低于1000，因此属于此处列举的通用定义集。

## 4.1 **用于**“DirectSpeakers”音频类型的通用定义

### 4.1.1 **用于**“DirectSpeakers”的通用audioChannelFormats

表1

**用于“DirectSpeakers”的AudioChannelFormat定义**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **audioChannelFormatID** | **audioChannelFormatName** | **方位角** | **高** | **speakerLabel** |
| AC\_00010001 | FrontLeft | 30 | 0 | M+030 |
| AC\_00010002 | FrontRight | −30 | 0 | M-030 |
| AC\_00010003 | FrontCentre | 0 | 0 | M+000 |
| AC\_00010004\* | LowFrequencyEffects | 0 | −30 | LFE |
| AC\_00010005 | SurroundLeft | 110 | 0 | M+110 |
| AC\_00010006 | SurroundRight | −110 | 0 | M-110 |
| AC\_00010007 | FrontLeftOfCentre | 22 | 0 | M+022 |
| AC\_00010008 | FrontRightOfCentre | −22 | 0 | M-022 |
| AC\_00010009 | BackCentre | 180 | 0 | M+180 |
| AC\_0001000a | SideLeft | 90 | 0 | M+090 |
| AC\_0001000b | SideRight | −90 | 0 | M-090 |
| AC\_0001000c | TopCentre | 0 | 90 | T+000 |
| AC\_0001000d | TopFrontLeft | 30 | 30 | U+030 |
| AC\_0001000e | TopFrontCentre | 0 | 30 | U+000 |
| AC\_0001000f | TopFrontRight | −30 | 30 | U-030 |
| AC\_00010010 | TopSurroundLeft | 110 | 30 | U+110 |
| AC\_00010011 | TopBackCentre | 180 | 30 | U+180 |
| AC\_00010012 | TopSurroundRight | −110 | 30 | U-110 |
| AC\_00010013 | TopSideLeft | 90 | 30 | U+090 |
| AC\_00010014 | TopSideRight | −90 | 30 | U-090 |
| AC\_00010015 | BottomFrontCentre | 0 | −30 | B+000 |
| AC\_00010016 | BottomFrontLeftMid | 45 | −30 | B+045 |
| AC\_00010017 | BottomFrontRightMid | −45 | −30 | B-045 |
| AC\_00010018 | FrontLeftWide | 60 | 0 | M+060 |
| AC\_00010019 | FrontRightWide | −60 | 0 | M-060 |
| AC\_0001001a | BackLeftMidDiffuse | 135 | 0 | M+135\_Diff |
| AC\_0001001b | BackRightMidDiffuse | −135 | 0 | M-135\_Diff |
| AC\_0001001c | BackLeftMid | 135 | 0 | M+135 |
| AC\_0001001d | BackRightMid | −135 | 0 | M-135 |
| AC\_0001001e | TopBackLeftMid | 135 | 30 | U+135 |
| AC\_0001001f | TopBackRightMid | −135 | 30 | U-135 |
| AC\_00010020\* | LowFrequencyEffectsL | 45 | −30 | LFE1 |
| AC\_00010021\* | LowFrequencyEffectsR | −45 | −30 | LFE2 |
| AC\_00010022 | TopFrontLeftMid | 45 | 30 | U+045 |
| AC\_00010023 | TopFrontRightMid | −45 | 30 | U-045 |

表1（结束）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **audioChannelFormatID** | **audioChannelFormatName** | **方位角** | **高** | **speakerLabel** |
| AC\_00010024 | FrontLeftScreen | 左屏幕边缘（如果未知，则为25） | 0 | M+SC |
| AC\_00010025 | FrontRightScreen | 右屏幕边缘（如果未知，则为-25） | 0 | M-SC |
| AC\_00010026 | FrontLeftMid | 45 | 0 | M+045 |
| AC\_00010027 | FrontRightMid | −45 | 0 | M-045 |
| AC\_00010028 | UpperTopBackCentre | 180 | 45 | UH+180 |
| \*这些声道还具有120 Hz的低通频率截止。 | | | | |

表1列举了每一个声道定义，其中列举了audioChannelFormatID、audioChannelFormatName和speakerLabel元素。方位角和高度列表示应在位置子元素（所有这些声道定义的距离为1.0）中规定的位置。下述的XML显示了本表格中的第一个条目如何用XML表示。

|  |
| --- |
| <audioChannelFormat audioChannelFormatID="AC\_00010001" audioChannelFormatName="FrontLeft" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioBlockFormat audioBlockFormatID="AC\_00010001\_00000001">  <speakerLabel>urn:itu:bs:2051:0:speaker:M+030</speakerLabel>  <position coordinate="azimuth">30.0</position>  <position coordinate="elevation">0.0</position>  <position coordinate="distance">1.0</position>  </audioBlockFormat>  </audioChannelFormat> |

### 4.1.2 **用于**“DirectSpeakers”的通用audioStreamFormats和audioTrackFormats

audioStreamFormat和audioTrackFormat的通用格式类型是“PCM”。

如前文所提到的，audioStreamFormat和audioTrackFormat（与每个audioChannelFormat定义相关）使用相同的ID前缀以及附带“PCM\_”的相同的名称，例如“PCM\_FrontLeft”。下述的XML编码显示了表格中第一个条目的audioStreamFormat和audioTrackFormat定义。

|  |
| --- |
| <audioStreamFormat audioStreamFormatID="AS\_00010001" audioStreamFormatName="PCM\_FrontLeft" formatLabel="0001" formatDefinition="PCM">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioTrackFormatIDRef>AT\_00010001\_01</audioTrackFormatIDRef>  </audioStreamFormat>  <audioTrackFormat audioTrackFormatID="AT\_00010001\_01" audioTrackFormatName="PCM\_FrontLeft" formatLabel="0001" formatDefinition="PCM">  <audioStreamFormatIDRef>AS\_00010001</audioStreamFormatIDRef>  </audioTrackFormat> |

### 4.1.3 用于“DirectSpeakers”的通用audioPackFormats

audioPackFormat定义覆盖了一系列扬声器配置。表2显示已经定义的配置集，指出了ITU-R BS.2051建议书中的配置。最后一列给出了包中含有的每个声道的引用。为了清楚起见，仅列出最后两位数字，而不是给出整个ID（例如AP\_00010001）；所以其形式为AP\_000100xx，其中xx是列出的、用来给出完整的audioPackFormatIDRef的数字。

audioPackFormat名称已经有两种形式，一种是传统名称，另一种是以下划线分隔的以ITU-R BS.2051建议书（U+M+L）的格式而格式化的名称。名称中不适用空格，因为其可能带来问题。

表2

**AudioPackFormat定义**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **audioPackFormatID**  **audioPackFormatName**  来自建议书 | **audioChannelIDRef** | **audioChannelName** | **在建议书中的声道名称** | **speakerLabel** |
| **AP\_00010001**  mono\_(0+1+0)  *BS.775* | AC\_00010003 | FrontCentre | 单声道 | M+000 |
| **AP\_00010002**  stereo\_(0+2+0)  *BS.775, BS.2051 (A)* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| **AP\_0001000a**  3.0\_(0+3+0)  *BS.775* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| **AP\_0001000b**  4.0\_(0+4+0)  *BS.775* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010009 | BackCentre | 单声道环绕 | M+180 |
| **AP\_0001000c**  5.0\_(0+5+0)  *BS.775* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| **AP\_00010003**  5.1\_(0+5+0)  *BS.775, BS.2051 (B)* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| **AP\_0001000d**  6.1\_(0+6+0)  *N/A* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |

表2（延续）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **audioPackFormatID**  **audioPackFormatName**  来自建议书 | **audioChannelIDRef** | **audioChannelName** | **在建议书中的声道名称** | **speakerLabel** |
|  | AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| AC\_00010009 | BackCentre | 中心环绕 | M+180 |
| **AP\_0001000e**  7.1\_front\_(0+7+0)  *N/A* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
|  | AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| AC\_00010026 | FrontLeftMid | 左宽 | M+045 |
| AC\_00010027 | FrontRightMid | 右宽 | M-045 |
| **AP\_0001000f**  7.1\_back\_(0+7+0)  *N/A* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左侧环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右侧环绕 | M-110 |
| AC\_0001001c | BackLeftMid | 左后环绕 | M+135 |
| AC\_0001001d | BackRightMid | 右后环绕 | M-135 |
| **AP\_00010004**  7.1\_top\_(2+5+0)  *BS.2051 (C)* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| AC\_0001000d | TopFrontLeft | 左高 | U+030 |
| AC\_0001000f | TopFrontRight | 右高 | U-030 |
| **AP\_00010012**  7.1side\_5.1+sc\_(0+7+0)  *N/A* | AC\_00010001 | FrontLeft | 左前 | M+030 |
| AC\_00010002 | FrontRight | 右前 | M-030 |
| AC\_00010003 | FrontCentre | 中心前 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| AC\_00010024 | FrontLeftScreen | 屏幕左前 | M+SC |
| AC\_00010025 | FrontRightScreen | 屏幕右前 | M-SC |

表2（延续）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **audioPackFormatID**  **audioPackFormatName**  来自建议书 | **audioChannelIDRef** | **audioChannelName** | **在建议书中的声道名称** | **speakerLabel** |
| **AP\_00010013**  7.1topside\_5.1.2\_(0+7+0)  *N/A* | AC\_00010001 | FrontLeft | 左前 | M+030 |
| AC\_00010002 | FrontRight | 右前 | M-030 |
| AC\_00010003 | FrontCentre | 中心前 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
|  | AC\_00010013 | TopSideLeft | 上边左 | U+090 |
| AC\_00010014 | TopSideRight | 上边右 | U-090 |
| **AP\_00010014**  9.1screen\_5.1.2+sc\_(2+7+0)  *N/A* | AC\_00010001 | FrontLeft | 左前 | M+030 |
| AC\_00010002 | FrontRight | 右前 | M-030 |
| AC\_00010003 | FrontCentre | 中心前 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
|  | AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| AC\_00010013 | TopSideLeft | 上边左 | U+090 |
| AC\_00010014 | TopSideRight | 上边右 | U-090 |
| AC\_00010024 | FrontLeftScreen | 屏幕左前 | M+SC |
| AC\_00010025 | FrontRightScreen | 屏幕右前 | M-SC |
| **AP\_00010016**  9.1\_7.1.2\_(2+7+0)  *N/A* | AC\_00010001 | FrontLeft | 左前 | M+030 |
| AC\_00010002 | FrontRight | 右前 | M-030 |
| AC\_00010003 | FrontCentre | 中心前 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左侧环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右侧环绕 | M-110 |
| AC\_0001001c | BackLeftMid | 左后 | M+135 |
| AC\_0001001d | BackRightMid | 右后 | M-135 |
| AC\_00010013 | TopSideLeft | 上边左 | U+090 |
| AC\_00010014 | TopSideRight | 上边右 | U-090 |
| **AP\_00010005**  9.1\_5.4.1\_(4+5+0)  *BS.2051 (D)* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| AC\_0001000d | TopFrontLeft | 左高 | U+030 |
| AC\_0001000f | TopFrontRight | 右高 | U-030 |
| AC\_00010010 | TopSurroundLeft | 左高环绕 | U+110 |
| AC\_00010012 | TopSurroundRight | 右高环绕 | U-110 |

表2（延续）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **audioPackFormatID**  **audioPackFormatName**  来自建议书 | **audioChannelIDRef** | **audioChannelName** | **在建议书中的声道名称** | **speakerLabel** |
| **AP\_00010006**  10.1\_(4+5+1)  *BS.2051 (E)* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| AC\_0001000d | TopFrontLeft | 左高 | U+030 |
| AC\_0001000f | TopFrontRight | 右高 | U-030 |
| AC\_00010010 | TopSurroundLeft | 左高环绕 | U+110 |
|  | AC\_00010012 | TopSurroundRight | 右高环绕 | U-110 |
| AC\_00010015 | BottomFrontCentre | 中心下 | B+000 |
| **AP\_00010007**  10.2\_(3+7+0)  *BS.2051 (F)* | AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010022 | TopFrontLeftMid | 左高 | U+045 |
|  | AC\_00010023 | TopFrontRightMid | 右高 | U-045 |
| AC\_0001000a | SideLeft | 左侧 | M+090 |
| AC\_0001000b | SideRight | 右侧 | M-090 |
| AC\_0001001c | BackLeftMid | 左后 | M+135 |
| AC\_0001001d | BackRightMid | 右后 | M-135 |
| AC\_00010028 | UpperTopBackCentre | 中心高 | UH+180 |
| AC\_00010020 | LowFrequencyEffectsL | 低频特效-1 | LFE1 |
| AC\_00010021 | LowFrequencyEffectsR | 低频特效-2 | LFE2 |
| **AP\_00010015**  11.1\_5.1.4+sc\_(4+7+0)  *N/A* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
| AC\_0001000d | TopFrontLeft | 上前左 | U+030 |
| AC\_0001000f | TopFrontRight | 上前右 | U-030 |
| AC\_00010010 | TopSurroundLeft | 上左环绕 | U+110 |
| AC\_00010012 | TopSurroundRight | 上右环绕 | U-110 |
| AC\_00010024 | FrontLeftScreen | 屏幕左前 | M+SC |
| AC\_00010025 | FrontRightScreen | 屏幕右前 | M-SC |

表2（延续）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **audioPackFormatID**  **audioPackFormatName**  来自建议书 | **audioChannelIDRef** | **audioChannelName** | **在建议书中的声道名称** | **speakerLabel** |
| **AP\_00010017**  11.1\_7.1.4\_(4+7+0)  *N/A* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_0001000a | SideLeft | 左侧环绕 | M+090 |
| AC\_0001000b | SideRight | 右侧环绕 | M-090 |
| AC\_0001001c | BackLeftMid | 左后 | M+135 |
| AC\_0001001d | BackRightMid | 右后 | M-135 |
| AC\_00010022 | TopFrontLeftMid | 上中左 | U+045 |
| AC\_00010023 | TopFrontRightMid | 上右左 | U-045 |
| AC\_00010010 | TopSurroundLeft | 顶部左环绕 | U+110 |
| AC\_00010012 | TopSurroundRight | 顶部右环绕 | U-110 |
| **AP\_00010008**  13.1\_(4+9+0)  *BS.2051 (G)* | AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010024 | FrontLeftScreen | 左屏幕 | M+SC |
| AC\_00010025 | FrontRightScreen | 右屏幕 | M-SC |
|  | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_0001000a | SideLeft | 左侧环绕 | M+090 |
| AC\_0001000b | SideRight | 右侧环绕 | M-090 |
| AC\_0001001c | BackLeftMid | 左后环绕 | M+135 |
| AC\_0001001d | BackRightMid | 右后环绕 | M-135 |
|  | AC\_00010022 | TopFrontLeftMid | 左上前 | U+045 |
| AC\_00010023 | TopFrontRightMid | 右上前 | U-045 |
| AC\_00010010 | TopSurroundLeft | 左上后 | U+110 |
| AC\_00010012 | TopSurroundRight | 右上后 | U-110 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |

表2（延续）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **audioPackFormatID**  **audioPackFormatName**  来自建议书 | **audioChannelIDRef** | **audioChannelName** | **在建议书中的声道名称** | **speakerLabel** |
| **AP\_00010009**  22.2\_(9+10+3)  *BS.2051 (H)* | AC\_00010018 | FrontLeftWide | 左前 | M+060 |
| AC\_00010019 | FrontRightWide | 右前 | M-060 |
| AC\_00010003 | FrontCentre | 中心前 | M+000 |
| AC\_00010020 | LowFrequencyEffectsL | 低频特效-1 | LFE1 |
| AC\_0001001c | BackLeftMid | 左后 | M+135 |
| AC\_0001001d | BackRightMid | 右后 | M-135 |
| AC\_00010001 | FrontLeft | 中心左前 | M+030 |
| AC\_00010002 | FrontRight | 中心右前 | M-030 |
| AC\_00010009 | BackCentre | 后中心 | M+180 |
| AC\_00010021 | LowFrequencyEffectsR | 低频特效-2 | LFE2 |
| AC\_0001000a | SideLeft | 左侧 | M+090 |
| AC\_0001000b | SideRight | 右侧 | M-090 |
| AC\_00010022 | TopFrontLeftMid | 上前左 | U+045 |
| AC\_00010023 | TopFrontRightMid | 上前右 | U-045 |
| AC\_0001000e | TopFrontCentre | 上前中心 | U+000 |
| AC\_0001000c | TopCentre | 上中心 | T+000 |
| AC\_0001001e | TopBackLeftMid | 上后左 | U+135 |
| AC\_0001001f | TopBackRightMid | 上后右 | U-135 |
| AC\_00010013 | TopSideLeft | 上边左 | U+090 |
| AC\_00010014 | TopSideRight | 上边右 | U-090 |
| AC\_00010011 | TopBackCentre | 上后中心 | U+180 |
| AC\_00010015 | BottomFrontCentre | 下前中心 | B+000 |
| AC\_00010016 | BottomFrontLeftMid | 下前左 | B+045 |
| AC\_00010017 | BottomFrontRightMid | 下前右 | B-045 |
| **AP\_00010011**  Auro-3D\_(9+9+0)  *N/A* | AC\_00010001 | FrontLeft | 左 | M+030 |
| AC\_00010002 | FrontRight | 右 | M-030 |
| AC\_00010003 | FrontCentre | 中心 | M+000 |
| AC\_00010004 | LowFrequencyEffects | 低频特效 | LFE |
| AC\_00010005 | SurroundLeft | 左环绕 | M+110 |
| AC\_00010006 | SurroundRight | 右环绕 | M-110 |
|  | AC\_0001000a | SideLeft | 左侧 | M+090 |
| AC\_0001000b | SideRight | 右侧 | M-090 |
| AC\_0001001a | BackLeftMidDiffuse | 左后环绕 | M+135\_Diff |
| AC\_0001001b | BackRightMidDiffuse | 右后环绕 | M-135\_Diff |
| AC\_0001000d | TopFrontLeft | 左高 | U+030 |
| AC\_0001000f | TopFrontRight | 右高 | U-030 |

表2（结束）

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **audioPackFormatID**  **audioPackFormatName**  来自建议书 | **audioChannelIDRef** | **audioChannelName** | **在建议书中的声道名称** | **speakerLabel** |
|  | AC\_0001000e | TopFrontCentre | 中心高 | U+000 |
| AC\_00010010 | TopSurroundLeft | 左环绕高 | U+110 |
| AC\_00010012 | TopSurroundRight | 右环绕高 | U-110 |
| AC\_00010013 | TopSideLeft | 左侧高 | U+090 |
| AC\_00010014 | TopSideRight | 右侧高 | U-090 |
| AC\_0001001e | TopBackLeftMid | 左后方环绕高 | U+135 |
| AC\_0001001f | TopBackRightMid | 右后方环绕高 | U-135 |

为了显示如何用XML表示audioPackDefinition ，下述编码显示了立体声包定义。

|  |
| --- |
| <audioPackFormat audioPackFormatID="AP\_00010002" audioPackFormatName="urn:itu:bs:2051:0:pack:stereo\_(0+2+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  </audioPackFormat> |

## 4.2 “矩阵”音频类型的通用定义

目前，没有用于“矩阵”音频类型的通用定义。然而，之后的修订中，可以将相关信息添加到本节中，给通用矩阵配置使用。

## 4.3 “对象”音频类型的通用定义

目前，没有用于“对象”音频类型的通用定义。然而，之后的修订中，可以将相关信息添加到本节中。

## 4.4 “HOA”音频类型的通用定义

目前，没有用于“HOA”音频类型的通用定义。然而，之后的修订中，可以将相关信息添加到本节中。

## 4.5 “双声道”音频类型的通用定义

目前，没有用于“双声道”音频类型的通用定义。然而，之后的修订中，可以将相关信息添加到本节中。

### 4.5.1 “双声道”的通用audioChannelFormats

表3

**“双声道”的通用AudioChannelFormat**

|  |  |
| --- | --- |
| **audioChannelFormatID** | **audioChannelFormatName** |
| AC\_00050001 | LeftEar |
| AC\_00050002 | RightEar |

表1列举了每一个声道定义，其中包括audioChannelFormatID和audioChannelFormatName 元素。下述XML显示了表格中的第一个条目如何用XML表示。

|  |
| --- |
| <audioChannelFormat audioChannelFormatID="AC\_00050001" audioChannelFormatName="LeftEar" typeLabel="0005" typeDefinition="DirectSpeakers">  <audioBlockFormat audioBlockFormatID="AC\_00050001\_00000001">  </audioBlockFormat>  </audioChannelFormat> |

### 4.5.2 “双声道”的通用audioStreamFormats和audioTrackFormats

audioStreamFormat和audioTrackFormat的通用格式类型是“PCM”。

如前文所述，audioStreamFormat和audioTrackFormat（与每个audioChannelFormat定义相关）使用相同的ID前缀以及附带“PCM\_”的相同的名称，例如“PCM\_LeftEar”。下述的XML编码显示了表格中第一个条目的audioStreamFormat和audioTrackFormat定义。

|  |
| --- |
| <audioStreamFormat audioStreamFormatID="AS\_00050001" audioStreamFormatName="PCM\_LeftEar" formatLabel="0001" formatDefinition="PCM">  <audioChannelFormatIDRef>AC\_00050001</audioChannelFormatIDRef>  <audioTrackFormatIDRef>AT\_00050001\_01</audioTrackFormatIDRef>  </audioStreamFormat>  <audioTrackFormat audioTrackFormatID="AT\_00050001\_01" audioTrackFormatName="PCM\_LeftEar" formatLabel="0001" formatDefinition="PCM">  <audioStreamFormatIDRef>AS\_00050001</audioStreamFormatIDRef>  </audioTrackFormat> |

### 4.5.3 “双声道”的通用audioPackFormats

audioPackFormat定义覆盖一种单一配置。表2显示了已经被定义的配置。最后一列给出了包所包含的每个声道引用。为了清楚起见，仅列出最后两位数字，而不是给出整个ID（例如AP\_00010001）；所以其形式为AP\_000100xx，其中xx是列出的、用来给出完整的audioPackFormatIDRef的数字。

表4

**AudioPackFormat定义**

|  |  |  |
| --- | --- | --- |
| **audioPackFormatID**  audioPackFormatName | **audioChannelIDRef** | **audioChannelName** |
| **AP\_00050001**  双声道 | AC\_00050001  AC\_00050002 | LeftEar  RightEar |

为了显示如何用XML表示audioPackDefinition，下述编码显示了双耳包定义。

|  |
| --- |
| <audioPackFormat audioPackFormatID="AP\_00050001" audioPackFormatName="Binaural" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00050001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00050002</audioChannelFormatIDRef>  </audioPackFormat> |

## 4.6 使用URIs

由于通用定义集在未来可能会增多，它有助于给特定元素提供一种来源的方法。在声道定义中，speakerLabel元素对应ITU-R BS.2051建议书所使用的，它们都使用L + aaa型命名。为了阐明标签对应哪个通用定义，它以URI作为前缀，引用通用定义。ITU-R 6B/282文稿（“关于音频相关元数据的评论：ADM（音频定义模型）以及MDA（多维音频）”）建议了这种方法。

使用URIs的两个地方为speakerLabel元素（在audioBlockFormat中）以及audioPackFormatName属性（audioPackFormat的一部分）。对于ITU-R BS.2051建议书，URI前缀以*urn:itu:bs:2051:0*的形式给出*。*使用URIs的编码示例如下所示：

|  |
| --- |
| <speakerLabel>**urn:itu:bs:2051:0:speaker:M+030**</speakerLabel> |
| <audioPackFormat audioPackFormatID="AP\_00010002" audioPackFormatName="**urn:itu:bs:2051:0:pack:stereo\_(0+2+0)**" typeLabel="0001" typeDefinition="DirectSpeakers"> |

每个*urn:itu:bs:2051:0*前缀后跟着一个字符串来阐明什么被命名（在此示例中是扬声器或包），然后是实际名称。

# 5 附件

这份文件是Microsoft Excel电子表格，包括声道定义和包定义：

****

下述XML包含使用ITU-R BS.2076建议书模型的通用定义。其已经由电子表格自动生成。为了使用，只要将其复制粘贴到一个空白ASCII文本文件（Word不允许附加XML文件）。

|  |
| --- |
| <?xml version='1.0' encoding='utf-8'?>  <ituADM xmlns="urn:metadata-schema:adm">  <coreMetadata>  <format>  <audioFormatExtended>  <audioPackFormat audioPackFormatID="AP\_00010001" audioPackFormatName="urn:itu:bs:775:3:pack:mono\_(0+1+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_00010002" audioPackFormatName="urn:itu:bs:2051:0:pack:stereo\_(0+2+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_0001000a" audioPackFormatName="urn:itu:bs:775:3:pack:3.0\_(0+3+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_0001000b" audioPackFormatName="urn:itu:bs:775:3:pack:4.0\_(0+4+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010009</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_0001000c" audioPackFormatName="urn:itu:bs:2051:0:pack:5.0\_(0+5+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010005</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010006</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_00010003" audioPackFormatName="urn:itu:bs:2051:0:pack:5.1\_(0+5+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010004</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010005</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010006</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_0001000d" audioPackFormatName="6.1\_(0+6+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010004</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010005</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010006</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010009</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_0001000e" audioPackFormatName="7.1front\_(0+7+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010004</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010005</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010006</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010026</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010027</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_0001000f" audioPackFormatName="7.1back\_(0+7+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010004</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_0001000a</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_0001000b</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_0001001c</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_0001001d</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_00010004" audioPackFormatName="urn:itu:bs:2051:0:pack:7.1top\_(2+5+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010004</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010005</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010006</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_0001000d</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_0001000f</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_00010012" audioPackFormatName="7.1side\_5.1+sc\_(0+7+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010004</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010005</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010006</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010024</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010025</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_00010013" audioPackFormatName="7.1topside\_5.1.2\_(2+5+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  <audioChannelFormatIDRef>AC\_00010001</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010002</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010003</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010004</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010005</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010006</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010013</audioChannelFormatIDRef>  <audioChannelFormatIDRef>AC\_00010014</audioChannelFormatIDRef>  </audioPackFormat>  <audioPackFormat audioPackFormatID="AP\_00010014" audioPackFormatName="9.1screen\_5.1.2+sc\_(2+7+0)" typeLabel="0001" typeDefinition="DirectSpeakers">  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1. \* 建议书第6研究组在2016年依据ITU-R第1号决议对本建议书做了编辑修订。 [↑](#footnote-ref-1)