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Focus Group on Audiovisual  
Media Accessibility  
Technical Report

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**Part 15: Draft recommended accessibility  
features for mobile media devices**

## FOREWORD

The procedures for establishment of focus groups are defined in Recommendation ITU-T A.7. The ITU-T Focus Group on Audiovisual Media Accessibility (FG AVA) was proposed by ITU-T Study Group 16 for creation in-between TSAG meetings and it was established on 22 May 2011. The Focus Group was successfully concluded in October 2013.

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## **Summary**

This Technical Report of FG AVA was prepared by Working Group I "Mobile and hand-held devices". It outlines the draft recommended features for mobile media devices that the FG AVA has foreseen as a future work item for ITU-T Study Group 16 (SG16) "Multimedia" and ITU-R Study Group 6 (SG6) "Broadcasting service".

## **Draft recommended accessibility features for mobile media devices**

Mobile media devices can be grouped into six categories:

1. basic telephone;
2. telephone with features;
3. smart phones;
4. tablet devices;
5. mobile radio receivers;
6. mobile television receivers;
7. wearable devices.

Combinations of the above categories can be found in single devices.

ITU-T FG AVA recommended that the features of mobile media devices to assist accessibility should include the following elements:

1. Broadcast audio services to Category 5 devices with screens, and Category 6 devices, should enable the capability of easily readable text converted from the spoken dialogue from a radio broadcast services to be displayed on a screen (see Recommendation ITU-R BS. 1894-0 (2011), "Digital radio broadcast service, captioned radio") to improve accessibility for the hearing impaired.
2. Broadcast video services to Category 6 devices, and Category 6 devices, should enable the capability to provide easily readable *subtitles for the hard of hearing*<sup>1</sup> to improve accessibility for the hearing impaired, using the national standard for *subtitles for the hard of hearing*.
3. Broadcast video services to Category 6 devices, and Category 6 devices, should enable the capability to provide *audio descriptions*<sup>2</sup> to improve accessibility for the sight impaired.
4. Online video and audio services to Category 3, 4, 5, and 6 devices should comply with 1, 2, and 3 (see above).
5. Category 3, 4, 5, and 6 devices should include mono audio capability to improve accessibility for those with differential hearing sensitivity.
6. Category 3, 4, 5, and 6 devices should include text-to-speech capability for services such as programme guides to improve accessibility for the sight impaired.

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<sup>1</sup> Known as *closed captioning* in North America.

<sup>2</sup> Known as *descriptive video* in North America.