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SERIES F: NON-TELEPHONE TELECOMMUNICATION
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Accessibility and human factors

Audio-based network navigation system for persons with vision impairment

Recommendation ITU-T F.921



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Recommendation ITU-T F.921

Audio-based network navigation system for persons with vision impairment

Summary

Recommendation ITU-T F.921 explains how audio-based network navigation systems can be designed to ensure that they are inclusive and meet the needs of persons with visual impairments. Recommendation ITU-T F.921 adopts a technology neutral approach by defining and explaining the functional characteristics of the system. The aim is to give designers of audio-based network navigation systems the information that they need at the initial stages of development to anticipate and overcome any restrictions and barriers that prevent users with visual impairments from making full and independent use of the built environment. Recommendation ITU-T F.921 explains how to accommodate users' experience of audio-based network navigation systems and ensure the interoperability of those systems. This Recommendation recognizes that by meeting the user needs of persons with visual impairments, audio-based network navigation systems may also benefit persons with other disabilities, age-related conditions and specific needs, as well as the general public.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
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Accessibility, audio-based, network navigation system, persons with disabilities.

* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

FOREWORD

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In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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Introduction

This Recommendation explains how audio-based network navigation systems can be designed to ensure they are inclusive and meet the needs of persons with visual impairments. This Recommendation adopts a technology neutral approach by defining and explaining the functional characteristics of the system.

The aim is to give designers of audio-based navigation system the information that they need at the initial conception stage to anticipate and overcome any restrictions and barriers that prevent users from making full and independent use of the built environment. Whilst existing audio-based network navigation systems have utilized mobile technologies to provide users with efficient, effective and satisfying wayfinding and the standards for the hardware, compatibility and interoperability for mobile technologies may provide a useful basis for promoting audio-based navigation, this Recommendation explains how to accommodate the users' experience of inclusive audio-based network navigation systems (IABNNSs) and ensure the interoperability of those systems. This Recommendation recognizes that, by meeting the user needs of persons with visual impairments, IABNNSs can also benefit persons with other disabilities, age-related conditions and specific needs, as well as the general public. This Recommendation can be applied to IABNNSs in a variety of built environments, including those in urban or rural settings.

NOTE – This Recommendation on audio-based network navigation systems does not consider the specialized requirements of people who are deaf or hard of hearing.

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