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**Electromagnetic compatibility requirements for  
DC power ports of telecommunication network  
equipment in frequencies below 150 kHz**

Recommendation ITU-T K.76

ITU-T



## Recommendation ITU-T K.76

### Electromagnetic compatibility requirements for DC power ports of telecommunication network equipment in the frequencies below 150 kHz

#### Summary

Recommendation ITU-T K.76 specifies conducted emissions requirements for DC power ports of telecommunication network equipment in frequencies below 150 kHz. Furthermore, an immunity requirement specific to power ports of telecommunication network equipment with analogue voice interfaces is also defined.

#### History

| Edition | Recommendation | Approval   | Study Group | Unique ID*                                                                |
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#### Keywords

Below 150 kHz, conducted emissions, conducted immunity, electromagnetic compatibility, low frequency, performance criteria.

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\* 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>.

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## Introduction

This Recommendation complements the electromagnetic compatibility requirements for telecommunication network equipment contained in [ITU-T K.136] and [ITU-T K.137] by specifying requirements in frequencies below 150 kHz.

Telecommunication network equipment can produce disturbances to other equipment or can be susceptible to the electromagnetic phenomena in the frequencies below 150 kHz.

A necessity to analyse these frequencies was highlighted considering the influence that very low frequency disturbances have on analogue voice communication.