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MÕÕTEMEETODID. OSA 3: SAGEDUSTEL ÜLE 30 MHZ  
TÖÖTAV APARATUUR

Powerline communication apparatus used in  
**low-voltage installations – Radio disturbance  
characteristics – Limits and methods of measurement –**  
Part 3: Apparatus operating above 30 MHz

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 50561-3:2016 sisaldab Euroopa standardi EN 50561-3:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 50561-3:2016 consists of the English text of the European standard EN 50561-3:2016.
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English Version

Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - Limits and methods of measurement - Part 3: Apparatus operating above 30 MHz

Appareils de communication par courant porteur utilisés dans les installations basse tension - Caractéristiques de perturbations radioélectriques - Limites et méthodes de mesure - Partie 3 : Appareils fonctionnant au-dessus de 30 MHz

Kommunikationsgeräte auf elektrischen Niederspannungsnetzen - Funkstöreigenschaften - Grenzwerte und Messverfahren - Teil 3: Geräte für Frequenzen über 30 MHz

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Europäisches Komitee für Elektrotechnische Normung

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## European foreword

This document (EN 50561-3:2016) has been prepared by CLC/TC 210, "Electromagnetic compatibility (EMC)".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-11-23
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2018-11-23

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This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

The scope is extended to the whole radio-frequency range from 9 kHz to 400 GHz, but limits are formulated only in restricted frequency bands, which ensure that the electromagnetic disturbance generated does not exceed the level above which radio and telecommunications equipment or other equipment cannot operate as intended.

## 1 Scope

This part of EN 50561 specifies limits and methods of measurement of radio disturbance characteristics for in-home communication apparatus that use the low voltage power installation as the transmission medium. This part of EN 50561 applies to equipment that uses frequencies including those above 30 MHz in order to communicate.

Procedures are given for the measurement of signals generated by the equipment and limits are specified within the frequency range 9 kHz to 400 GHz. No measurement is required at frequencies where no limits are specified.

The radiated emission requirements in this standard are not intended to be applicable to the intentional transmissions from a radio-transmitter as defined by the ITU, nor to any spurious emissions related to these intentional transmissions.

NOTE The requirements defined in this standard effectively restrict the intended transmission frequencies to below 87,5 MHz.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50561-1:2013, *Power line communication apparatus used in low-voltage installations — Radio disturbance characteristics — Limits and methods of measurement — Part 1: Apparatus for in-home use*

EN 55032:2012, *Electromagnetic compatibility of multimedia equipment — Emission requirements (CISPR 32:2012)*

EN 55016-1-1:2010, *Specification for radio disturbance and immunity measuring apparatus and methods — Part 1-1: Radio disturbance and immunity measuring apparatus — Measuring apparatus (CISPR 16-1-1:2010)*

EN 55016-1-2:2004, *Specification for radio disturbance and immunity measuring apparatus and methods — Part 1-2: Radio disturbance and immunity measuring apparatus — Ancillary equipment — Conducted disturbances (CISPR 16-1-2:2003)*

EN 55016-4-2:2011, *Specification for radio disturbance and immunity measuring apparatus and methods — Part 4-2: Uncertainties, statistics and limit modelling — Measurement instrumentation uncertainty (CISPR 16-4-2:2011)*

## 3 Terms and definitions

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

### 3.1

#### **AC mains power port**

port that connects to the low voltage AC mains power network for the sole purpose of supplying electrical energy to the EUT