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SERIES K: PROTECTION AGAINST INTERFERENCE

**Guidance on the environmental management for
compliance with radio frequency EMF limits for
radiocommunication base stations**

**Amendment 1: New Appendix II – Management
of RF-EMF compliance for shared
radiocommunication sites**

Recommendation ITU-T K.121 (2016) – Amendment 1



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Recommendation ITU-T K.121

Guidance on the environmental management for compliance with radio frequency EMF limits for radiocommunication base stations

Amendment 1

New Appendix II – Management of RF-EMF compliance for shared radiocommunication sites

Summary

Recommendation ITU-T K.121 gives guidance on how to manage the compliance with RF-EMF limits in areas near to radiocommunication installations and how to establish processes for responding to public concern about exposure to RF-EMF.

Amendment 1 adds new Appendix II on management of RF-EMF compliance for shared radiocommunication sites.

History

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FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

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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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Recommendation ITU-T K.121

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Amendment 1

New Appendix II – Management of RF-EMF compliance for shared radiocommunication sites

Editorial note: This is a complete-text publication. Modifications introduced by this amendment are shown in revision marks relative to Recommendation ITU-T K.121 (2016).

1 Scope

With the rapid development of radiocommunication technology, radiocommunication base station (RBS) facilities are widely installed in areas close to people's living environment. Base stations which are installed in residential areas might be the objects of complaint and protest because of concerns mainly about possible health risks from exposure to RF-EMF. Community opposition also brings challenges to the telecommunications operators in respect of construction, operation and maintenance. So the environmental management of compliance with RF-EMF limits is increasingly important, not only for governments but also for operators.

The purpose of this Recommendation is:

- to provide guidance on the environmental management of compliance with RF-EMF human exposure standards for radiocommunication base stations;
- to promote the harmonization of environmental management for RF-EMF emissions for telecommunications operators, and give advice on its effective management;
- to proactively identify the RF-EMF environment in areas surrounding radiocommunication base stations, and also promote the sustainable development of wireless communication technology.

Portable RF-EMF transmitters are outside the scope of this Recommendation.

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

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| [ITU-T K.52] | Recommendation ITU-T K.52 (2004), <i>Guidance on complying with limits for human exposure to electromagnetic fields.</i> |
| [ITU-T K.61] | Recommendation ITU-T K.61 (2003), <i>Guidance to measurement and numerical prediction of electromagnetic fields for compliance with human exposure limits for telecommunication installations.</i> |
| [ITU-T K.70] | Recommendation ITU-T K.70 (2007), <i>Mitigation techniques to limit human exposure to EMFs in the vicinity of radiocommunication stations.</i> |