



**Electromagnetic compatibility
and Radio spectrum Matters (ERM);
System Reference Document;
Short Range Devices (SRD);
Technical characteristics for SRD equipment for
social alarm and alarm applications**

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document includes necessary information to support the co-operation under the MoU between ETSI and the Electronic Communications Committee (ECC) of the European Conference of Postal and Telecommunications Administrations (CEPT).

Introduction

The present document has been developed to support the co-operation between ETSI and the Electronic Communications Committee (ECC) of the European Conference of Postal and Telecommunications Administrations (CEPT).

The present document is intended to help finding appropriate ways to ensure that:

- 1) established wireless alarm and social alarm systems can be operated and used future-proofed;
- 2) evolving new applications (e.g. ambient assisted living, improved medical monitoring and image transmission) for wireless alarm and social alarm systems can be used under the regulatory framework.

1 Scope

The present document describes requirements for alarm and social alarm devices, systems and applications.

It is a common feature of all alarms that an alarm message, is passed to a place (e.g. operation centre), where experienced decision takers induce necessary actions, to prevent possible harm to life and limb, as well as start counter actions to stop a process indicated as highly critical or instable.

Due to the potential impacts of false or delayed alarm messages a minimum set of requirements for an alarm system has to be taken into account during the planning / installation phase. A high number of false alarms could lead to a desensitization of the users (e.g. fire / intrusion) or the "helpers" (e.g. emergency service in a social alarm system), which might result in ignored alarms, where every delay of an alarm message would result in an increased risk situation.

The following minimum set of requirements should be taken into account:

- Reliable work 24 h a day over the whole year.
- Avoidance of blocking / interference by other wireless systems.
- Fast transmission times of an alarm message including minimised delay from the trigger.
- Redundant signal and transmission paths (e.g. multi path networks).
- Non-susceptible to changes in the signal paths (e.g. changes of arrangements/constructions inside a building) to guarantee functionality and reachability in the operating area of the alarm system.
- Easy to use manual triggering (e.g. social alarm push button).
- Automatic transmission of the alarm message to the "final receiver" (e.g. fire operation centre), after triggering.
- Fall back / escalation steps to react on a first blocking of a signal or reception of updated information (e.g. enlarged area of fire).

The present document includes the necessary information to support the co-operation between ETSI and the ECC of the CEPT including:

- Detailed market information (annex A).
- Technical information (annex B).
- Expected compatibility issues (annex C).

2 References

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2.1 Normative references

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