
**Information technology — Real
Time Locating System (RTLS) device
performance test methods —**

**Part 61:
Low rate pulse repetition frequency
Ultra Wide Band (UWB) air interface**

*Technologies de l'information — Méthodes d'essai des performances
du dispositif des systèmes de localisation en temps réel (RTLS) —*

*Partie 61: Interface d'air ultra large à bas taux de bande de fréquence
de répétition d'impulsion (UWB)*

get full document from standards.iteh.ai

Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

| | Page |
|---------------------------------------------------------------|----------|
| Foreword | iv |
| Introduction | v |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms, definitions and abbreviated terms | 1 |
| 3.1 Terms and definitions | 1 |
| 3.2 Abbreviated terms | 1 |
| 4 General | 2 |
| 4.1 Performance requirements | 2 |
| 4.1.1 Location accuracy | 2 |
| 4.1.2 Tag capacity | 2 |
| 4.1.3 Location latency | 2 |
| 4.1.4 Tag orientation | 2 |
| 4.1.5 System range and packet error rates | 2 |
| 4.2 Default conditions applicable to the test methods | 3 |
| 4.2.1 Test environment | 3 |
| 4.2.2 Default tolerance | 3 |
| 4.2.3 System Logging | 3 |
| 5 Performance tests for ISO/IEC 24730-61 | 3 |
| 5.1 System locate performance | 3 |
| 5.1.1 Test objective | 3 |
| 5.1.2 Test set up | 3 |
| 5.1.3 Test procedure | 4 |
| 5.1.4 Test measurements and requirements | 4 |
| 5.1.5 Test report | 6 |
| 5.2 Tests for mandatory UWB tag to reader air interface | 6 |
| 5.2.1 Test objective | 6 |
| 5.2.2 Test set up | 6 |
| 5.2.3 Test procedure | 6 |
| 5.2.4 Test measurements and requirements | 6 |
| 5.2.5 Test report | 7 |

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword — Supplementary information](#).

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 31, *Automatic identification and data capture techniques*.

This first edition of ISO/IEC 24770-61:2015 cancels and replaces the first edition (ISO/IEC/TR 24770:2008), which has not been technically revised, but has been developed as an International Standard.

ISO/IEC 24770 consists of the following parts, under the general title *Information technology — Real-time locating systems (RTLS) device conformance test methods*:

- *Part 61: Low rate pulse repetition frequency Ultra Wide Band (UWB) air interface*
- *Part 62: High rate pulse repetition frequency Ultra Wide Band (UWB) air interface*

The following part is under preparation:

- *Part 5: Chirp Spread Spectrum (CSS) at 2,4 GHz air interface*

Introduction

ISO/IEC 24730-61 and ISO/IEC 24730-1 define an air interface and an application programming interface for Real Time Locating Systems (RTLS) devices used in asset management applications.

This International Standard provides test methods for measuring performance of equipment compliant with ISO/IEC 24730-61.

ISO/IEC 24769-61 contains all measurements required to be made on a product in order to establish whether it conforms to the corresponding part of ISO/IEC 24730.

Sample Document

get full document from standards.iteh.ai