ISO/IEC JTC 1 N 9852

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ISO/IEC JTC 1
Information Technology

Document Type:	**New Work Item Proposal**
Document Title:	**Change from a single IS to a Multi-Part IS for ISO/IEC 24769, " Information technology -- Automatic identification and data capture techniques -- Real time locating systems (RTLS) -- RTLS device conformance test methods "**
Document Source:	**SC 31**
Reference:	
Document Status:	**This document is circulated to JTC 1 National Bodies for concurrent review. If the JTC 1 Secretariat receives no objections to this proposal by the due date indicated, we will so inform the SC 31 Secretariat**
Action ID:	**Act**
Due Date:	**2010-01-14**
No. of Pages:	**7**

Secretariat, ISO/IEC JTC 1, American National Standards Institute, 25 West 43rd Street, New York, NY 10036; Telephone: 1 212 642 4932; Facsimile: 1 212 840 2298; Email: lrajchel@ansi.org

ISO/IEC JTC 1/SC 31

Automatic Identification and Data Capture Techniques

Secretariat: ANSI (USA)

DOC TYPE:	**New Work Item Proposal**
TITLE:	**Change from a single IS to a Multi-Part IS for ISO/IEC 24769, " Information technology -- Automatic identification and data capture techniques -- Real time locating systems (RTLS) -- RTLS device conformance test methods "**
SOURCE:	**National Body of Austria**
PROJECT:	**24769**
STATUS:	**As detailed in "SC031-N-2963 - Multi-Part Standard.doc", the National Body of Austria requests SC 31 to initiate a 90-day letter ballot to revise ISO/IEC 24769 into a multi-part standard with the following part structure.** **P-members have an obligation to vote and are requested to cast votes on the SC 31 Web site (LiveLink) by the date indicated on this cover page. Per Resolution 5 of the Seoul Plenary Meeting, P-Members are requested to use the attached form (SC031 - Form 13B Comment Document.doc)**
ACTION ID:	**COM**
DUE DATE:	**2009-12-31**
DISTRIBUTION:	**ISO/IEC JTC 1/SC 31 members**
MEDIUM:	**ISO TC Portal (LiveLink)**
NO. OF PAGES:	**7 (including this cover)**

ISO JTC 1 IEC
INFORMATION TECHNOLOGY STANDARDS
SC31 AUTOMATIC IDENTIFICATION & DATA CAPTURE TECHNIQUES
Program of Work

Current Project Structure within the SC 31 Program of Work

1. ***ISO/IEC 24769: Information technology -- Automatic identification and data capture techniques -- Real time locating systems (RTLS) -- RTLS device conformance test methods***
   (ITTF Project ID: 45246)

	Stage 1 NWIP	Stage 2 CD/PDTR/PDAM	Stage 3 FCD/FPDAM	Stage 4 FDIS/DTR/FDAM	Stage 5 IS/TR/AMD
International Standard PE: Tim Harrington	Sept 05 N1946 20.99	Mar 08 N2445 30.99	N/A	Jul 98 N9195* 40.99	Dec 08 N/A 60.60

Proposed Project Structure within the SC 31 Program of Work

1. ***ISO/IEC 24769-2: Information technology -- Real-time locating system (RTLS) device conformance test methods – Part 2: Test methods for air interface communication at 2,4 GHz***
   (ITTF Project ID: TBD)

	Stage 1 NWIP	Stage 2 CD/PDTR/PDAM	Stage 3 FCD/FPDAM	Stage 4 FDIS/DTR/FDAM	Stage 5 IS/TR/AMD
International Standard PE: Tim Harrington	Dec 09 N 20.20				

2. ***ISO/IEC 24769-5: Information technology -- Real-time locating system (RTLS) device conformance test methods – Part 5: Test methods for Chirp spread spectrum (CSS) air interface communication at 2,4 GHz***
   (ITTF Project ID: TBD)

	Stage 1 NWIP	Stage 2 CD/PDTR/PDAM	Stage 3 FCD/FPDAM	Stage 4 FDIS/DTR/FDAM	Stage 5 IS/TR/AMD
International Standard PE: Tim Harrington	Dec 09 N 20.20				

New Work Item Proposal

September 2009

PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2009-10-02	Proposer: ONORM, Austria
Secretariat: ANSI	**ISO/IEC JTC 1 N** XXXX ISO/IEC JTC 1/SC 31 N 2963 (SC031-N-2963)

A proposal for a new work item shall be submitted to the secretariat of the ISO/IEC joint technical committee concerned with a copy to the ISO Central Secretariat.

Presentation of the proposal

Title (subject to be covered and type of standard, e.g. terminology, method of test, performance requirements, etc.) Specification of Data Value Domain

ISO/IEC 24769-2 Information technology -- Real-time locating system (RTLS) device conformance test methods – Part 2: Test methods for air interface communication at 2,4 GHz

ISO/IEC 24769-5 Information technology -- Real-time locating system (RTLS) device conformance test methods – Part 5: Test methods for Chirp spread spectrum (CSS) air interface communication at 2,4 GHz

Scope (and field of application)

Note for the NWIP: The scope of ISO/IEC 24769-2 has been copied from ISO/IEC 24769 (Source: SC 31 N 2608), as only the number will change from ISO/IEC 24769 to ISO/IEC 24769-2, while the content is not intended to change.

ISO/IEC 24769-2

This document defines the test methods for determining the conformance of 2,4 GHz real time locating system (RTLS) tags with the specifications given in the corresponding parts of ISO 24730-2, but does not apply to the testing of conformity with regulatory or similar requirements.

The test methods require only that the mandatory functions, and any optional functions which are implemented, be verified. This may in appropriate circumstances, be supplemented by further, application specific functionality criteria that are not available to the general case.

The RTLS tag conformance parameters included in this document include the mandatory direct sequence spread spectrum (DSSS) 2,4 GHz radio frequency beacon. It also includes the optional on-off keyed, frequency shift keyed (OOK/FSK) short range radio frequency link and the optional magnetic air interface

Unless otherwise specified, the tests in the document shall be applied exclusively to RTLS tags defined in ISO 24730-2.

ISO/IEC 24769-5

This document defines the test methods for determining the conformance of 2,4 GHz real time locating systems (RTLS) for Chirp spread spectrum (CSS) with the specifications given in the corresponding parts of ISO/IEC 24730-5, but does not apply to the testing of conformity with regulatory or similar

requirements.

The test methods require only that the mandatory functions, and any optional functions which are implemented, be verified. This may in appropriate circumstances, be supplemented by further, application specific functionality criteria that are not available to the general case.

The RTLS tag conformance parameters included in this document include the mandatory Chirp spread spectrum (CSS) 2,4 GHz radio frequency 2-ary orthogonal CSS modulation, as well as the optional, DQPSK-CSS modulation. It also includes the mandatory tag application layer which defines the commands and the behaviour of the tag upon reception of such commands. It also includes the ranging process described in the standard.

Unless otherwise specified, the tests in the document shall be applied exclusively to RTLS tags defined in ISO 24730-5.

Purpose and justification - attach a separate page as annex, if necessary

As the corresponding base standard ISO/IEC 24730 will include multiple air interfaces that need conformance standards the conformance standard should be split into a multi-part document as well. The parts in ISO/IEC 24730 are:

ISO/IEC 24730-1 Information technology -- Real-time locating systems (RTLS) -- Part 1: Application program interface (API)

ISO/IEC 24730-2 Information technology -- Real-time locating systems (RTLS) -- Part 2: 2,4 GHz air interface protocol

ISO/IEC 24730-5 Information technology -- Real-time locating systems (RTLS) -- Part 5: Chirp spread spectrum (CSS) at 2,4 GHz air interface

As the current ISO/IEC 24769:2008 does not include test methods for ISO/IEC 24730-1 there is obviously no need for conformance tests for Part 1 of ISO/IEC 24730. For that reason this work item should rename or move the current ISO/IEC 24769 to ISO/IEC 24769-2 to apply for the corresponding ISO/IEC 24730-2 and generate a new part 5 (i.e. ISO/IEC 24769-5) as conformance standard for ISO/IEC 24769-5. ISO/IEC 24769:2008 is recommended to be withdrawn with publication of ISO/IEC 24730-2.

Programme of work

If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed?

____ **a single International Standard**

____ more than one International Standard (expected number: .....)

_X__ a multi-part International Standard consisting of 2 parts numbered 2 and 5

____ an amendment or amendments to the following International Standard(s) .....

____ a technical report , type 1.....

And which standard development track is recommended for the approved new work item?

_**X**__**a. Default Timeframe**

____b. Accelerated Timeframe

____c. Extended Timeframe

Relevant documents to be considered

ISO/IEC 24730

ISO/IEC TR 24769

ISO/IEC TR 24770

ISO/IEC TR18047

Co-operation and liaison None
Preparatory work offered with target date(s) : The Austrian National Body is pleased to be the sponsoring member for part 5 of this work item, and the first PDTR ballot will be within 12 months of approval of the work item. The Austrian National Body recommends to change the current ISO/IEC 24730 document to ISO/IEC 24730-2 and to send it immediately to PDTR ballot.
Signature: Raymond Delnicki, ISO/IEC JTC 1/SC 31 Secretariat
Will the service of a maintenance agency or registration authority be required? ..No..... - If yes, have you identified a potential candidate? ..... - If yes, indicate name ..... Are there any known requirements for coding? ..No..... -If yes, please specify on a separate page Does the proposed standard concern known patented items? ..Not known at this stage..... - If yes, please provide full information in an annex Are there any known requirements for cultural and linguistic adaptability? No -If yes, please specify on a separate page

Comments and recommendations of the JTC 1 or SC 31 Secretariat - attach a separate page as an annex, if necessary

Comments with respect to the proposal in general, and recommendations thereon: It is proposed to assign this new item to JTC 1/SC 31 and JTC1/SC31/WG7 respectively

Voting on the proposal - Each P-member of the ISO/IEC joint technical committee has an obligation to vote within the time limits laid down (normally three months after the date of circulation).

Date of circulation:	**Closing date for voting:**	**Signature of Secretary:**
2009-10-02	2009-12-31	Lisa Rajchel

NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	**Validity**	**Explanation**
A. Business Requirement		
A.1 Market Requirement	Essential _X__ Desirable ___ Supportive ___	Required by users of RTLS technology to assess conformity of RTLS devices with standards (especially ISO/IEC 24730-5) and match them to their application needs.

A.2 Regulatory Context	Essential _X __ Desirable ___ Supportive ___ Not Relevant ___	May assist in demonstrating conformity with regulatory requirements for the equipment.
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes ___ No_X __	This Technical Report will supplement a suite of standards defining aspects of RTLS systems.
B.2 Commitment to other organisation	Yes ___ No_X__	
B.3 Other Source of standards	Yes _X__ No___	Radio Standards e.g. ETSI (CEPT/ERC) and ARIB (Japan), as well as Radio regulations (FCC/US as well as CEPT/ERC and ITU) and Human Safety regulations. ISO/IEC 18046, ISO/IEC 18047
C. Technical Status		
C.1 Mature Technology	Yes _X__ No___	The technology may be considered mature, however there exists disparate air interfaces across the providers of RTLS technology
C.2 Prospective Technology	Yes _X __ No___	To promote interoperability, there is a requirement to provide common air interfaces and protocols across RTLS technology used in asset management.
C.3 Models/Tools	Yes _ __ No_ X __	Conformance measurement is an essential tool for the wider use of RTLS technology
D. Conformity Assessment and Interoperability		

D.1 Conformity Assessment	Yes _X__ No___	The assessment of device conformity with air interface standards in ISO/IEC 24730, to ensure satisfactory operation in applications.
D.2 Interoperability	Yes _X__ No___	Demonstration of conformity with ISO/IEC 24730 will assist users in selecting devices on the basis that they are interoperable in their systems, irrespective of supplier.
E. Adaptability to Culture, Language, Human Functioning and Context of Use		
E.1 Cultural and Linguistic Adaptability	Yes_____ No___N/A____	
E.2 Adaptability to Human Functioning and Context of Use	Yes_____ No___N/A____	
F. Other Justification		