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Information Technology

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2008-08-07

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New Work Item Proposal

May 2008

PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2008-08-07	WG10
Secretariat: Standards Council of Canada (SCC)	ISO/IEC JTC 1 N 4132 ISO/IEC JTC 1/SC 7 N XXX

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 Information Technology –The application of conformity assessment methodology to process capability and organizational maturity
Scope: The scope of this work is to define the application of a conformity assessment methodology, based on the existing published ISO/IEC standards and guides, to process capability and organizational maturity in order to support an environment which encourages worldwide recognition of conformity assessment results. The publication will be a Technical Report Type 2.

Purpose and justification:

JTC 1's policy on Conformity Assessment [1] is stated in Annex C of the ISO/IEC JTC1 Directives, Edition 5. To promote consistent implementation of standards JTC 1 has resolved that it shall be a major contributor to international acceptance of conformity assessment procedures and specifications for IT related areas, and that it shall work to support an environment which encourages worldwide recognition of conformity [2] assessment results.

Each JTC 1 Subcommittee has the authority and responsibility to specify the **conformity assessment methodology** [3] applicable to any distinct area of Information Technology that is entirely within the scope of that Subcommittee.

In the conformity assessment area, JTC 1's objectives include the facilitation of mutual recognition of accreditation, test reports, certification and registration in the IT field, primarily by developing appropriate standards, and recognition of Supplier's Declaration as a legitimate statement of conformity.

With the worldwide take up of ISO/IEC 15504, requirements to meet target process capability levels and organizational maturity levels are increasing being made in contracts. Assessments result in the issue of an assessment report together with a certificate of process capability and/or organizational maturity following the completion of an assessment.

To support JTC1's objectives of mutual recognition of accreditation, test reports, certification, registration, and recognition of a supplier's declaration of conformity, a conformity assessment methodology for assessments of process capability and organizational maturity will be defined.

The conformity assessment shall be directed to the requirements of ISO/IEC 15504-2:2003 Performing an Assessment and ISO/IEC TR 15504-7:2008 Assessment of Organizational Maturity.

The overall framework for conformity assessment shall follow the principles defined in ISO/IEC 17020:1998 General criteria for the operating of various types of bodies performing inspection.

Inspection, according to Clause 2.1 of ISO/IEC 17020, is the "Examination of a product design, product, service, **process** or plant and determination of their conformity with specific requirements or, on the basis of professional judgement, general requirements".

The conformity assessment methodology shall consider the use of a supplier declaration of conformity according to ISO/IEC 17050-2:2005 Conformity assessment – Supplier's declaration of conformity – Parts 1 and 2.

ISO/IEC 17050 is a standard for first party attestation of conformity: It specifies requirements applicable when the organization responsible for fulfilment of specified requirements (supplier) provides a declaration that a product (including service), **process**, management system, person or body is in conformity with specified requirements. A supplier's declaration of conformity of a process can be substantiated by an Assessment Report.

The conformity assessment methodology shall also consider how peer assessments might be performed according to ISO/IEC 17040 Conformity assessment – General requirements for peer assessment of conformity assessment bodies and accreditation bodies.

[1] Conformity Assessment is any activity concerned with determining directly or indirectly that relevant requirements are fulfilled [ISO/IEC Guide 2:1991/DAM 1:1994, 12.1].

[2] Conformity is fulfilment by a product, process or service of specified requirements [ISO/IEC Guide 2:1991, 13.1].

[3] A conformity assessment methodology may include the specification of some or all of the following: terminology, basic concepts, requirements and guidance concerning test methods, test specification and means of testing, and requirements and guidance concerning the operation of conformity assessment services and the presentation of results.

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 (Technical Report Type 2)
☐ more than one International Standard (expected number:)
☐ a multi-part International Standard consisting of parts
☐ an amendment or amendments to the following International Standard(s)
☐ a technical report , type

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

- ☒ a. Default Timeframe
☐ b. Accelerated Timeframe
☐ c. Extended Timeframe

If the proposed new work item is approved, it shall be allocated to SC7/WG10.

Relevant documents to be considered

- ISO/IEC 15504-2:2003 Performing an Assessment
- ISO/IEC TR 15504-7:2008 Assessment of Organizational Maturity
- ISO/IEC 17020:1998 General criteria for the operating of various types of bodies performing inspection
- ISO/IEC 17024 Conformity assessment General requirements for bodies operating certification of persons
- ISO/IEC 17040-2:2005 Conformity assessment – General requirements for peer assessment of conformity assessment bodies and accreditation bodies
- ISO/IEC 17050-1:2005 Conformity assessment – Supplier's declaration of conformity – Part 1: General requirements
- ISO/IEC 17050-2:2005 Conformity assessment – Supplier's declaration of conformity – Part 2: Supporting documentation
- ISO/IEC Guide 7: 1994 Guidelines for drafting of standards suitable for use for conformity assessment
- ISO/IEC Guide 60: 2004 Conformity assessment – Code of good practice
- ISO/IEC Guide 68: 2002 Arrangements for the recognition and acceptance of conformity assessment results
- ISO/IEC 17000: 2004 Conformity assessment – Vocabulary and general principles
- ISO/IEC 17011: 2004 Conformity assessment – General requirements for accreditation bodies accrediting conformity assessment bodies

Co-operation and liaison:

- Internal SC7 liaison with WG24

Preparatory work offered with target date(s)

Once approved and before a first meeting the WG Convener will make a call to those operating in the field for relevant input as a basis for developing an initial working draft.

The UK intends to submit a working draft following approval of the NWI and prior to a first meeting.

Support for this New Work Item Proposal has been offered by UK, Australia, Finland, Luxembourg, France, Brazil, Korea, Switzerland, Germany

Project editors have been offered by Australia and Italy

Signature: A. Dorling, WG10 Convener

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? .. No

- If yes, please provide full information in an annex

Are there any known accessibility requirements and/or dependencies (see:

<http://www.jtc1access.org>)? No

-If yes, please specify on a separate page

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 7 Secretariat - attach a separate page as an annex, if necessary

This new work item is to be assigned to JTC 1/SC 7/WG10 and allocated a new standard number (not 15504).

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: 2008-08-08	Closing date for voting: 2008-11-08	Signature of Secretary: W. Suryn
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NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	Validity	Explanation
A. Business Requirement		
A.1 Market Requirement	Essential ___X___ Desirable ___ Supportive ___	With the worldwide take up of ISO/IEC 15504, requirements to meet target process capability levels or an organizational maturity level are increasing being made in contracts. Assessments result in the issuance of an assessment report together with a certificate of process capability and/or organizational maturity. There is an increasing need to define the application of a conformity assessment methodology as a foundation for mutual recognition of accreditation, assessment reports, certification and registration, and to support recognition of a supplier's declaration of conformity
A.2 Regulatory Context	Essential ___ Desirable ___ Supportive_X___ Not Relevant - --	Conformity assessment may be required in the future in a regulatory environment for safety critical applications in medical, nuclear and automotive applications.
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes _ X _ No___	The proposed new work item will support the future evolution of ISO/IEC 15504 in its revision cycle during 2009-2012 and may provide a framework for other conformity assessment needs e.g. WG24.
B.2 Commitment to other organisation	Yes ___ No_ X _	
B.3 Other Source of standards	Yes ___X___ No___	See ' Relevant documents to be considered '

C. Technical Status		
C.1 Mature Technology	Yes <input type="checkbox"/> X <input type="checkbox"/> No <input type="checkbox"/>	Conformity assessment approaches and procedures are well established within ISO/IEC however there is no guidance on their application to the field of process capability and organizational maturity assessments.
C.2 Prospective Technology	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X <input type="checkbox"/>	
C.3 Models/Tools	Yes <input type="checkbox"/> X <input type="checkbox"/> No <input type="checkbox"/>	<p>The requirements for performing assessments are defined in</p> <ul style="list-style-type: none"> • ISO/IEC 15504-2:2003 Performing an Assessment • ISO/IEC TR 15504-7:2008 Assessment of Organizational Maturity <p>ISO/IEC 15504 -5,6,7 and 8 define exemplar Process Assessment Models</p>
D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes <input type="checkbox"/> X <input type="checkbox"/> No <input type="checkbox"/>	See 'Purpose and Justification'
D.2 Interoperability	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X <input type="checkbox"/>	
E. Adaptability to Culture, Language, Human Functioning and Context of Use		
E.1 Cultural and Linguistic	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X <input type="checkbox"/>	
E.2 Adaptability to Human Functioning and Context of Use	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X <input type="checkbox"/>	
F. Other Justification		