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Report of the Convener of WG8 to the 24th Plenary Meeting of ISO/IEC JTC1/SC17 being held in Song-Do, Korea, 2011-10-05/07

Contents:

1. Meetings since the last SC17 Plenary Meeting

Three WG8 meetings have been held since the last SC17 Plenary Meeting:

- 49th meeting of WG8 in Ispra, Italy, 2011-03-28/30

  Participation: 32 delegates from 11 countries and 2 Liaison Organizations, in detail:

Austria	4
China	1
France	7
Germany	4
Israel	2
Japan	4
Netherlands	1
Singapore	1
Slovenia	1
U.K.	2
U.S.A.	2
EU JRC	2
Visa Europe	1

- 50th meeting of WG8 in Song-Do, Korea, 2011-09-28/30

  Participation: 27 delegates from 11 countries and 1 Liaison Organization, in detail:

Austria	3
France	5
Germany	3
Japan	5
Korea	3
Malaysia	1
Singapore	1
Slovenia	1
Spain	1
U.K.	1
U.S.A.	2
Visa Europe	1

During that period the Task Force TF2 of WG8, with its Convener Pascal Roux (France), has held three meetings:

- 34th meeting of WG8/TF2 in Ispra, Italy, 2011-03-31/04-01.
  Participation: 25 delegates from 8 countries and 2 Liaison Organizations.

- 35th meeting of WG8/TF2 in Song-Do, Korea, 2011-09-28/30.
  Participation: 24 delegates from 11 countries

2. ISO/IEC 14443, Proximity cards (PICCs), and its related test methods ISO/IEC 10373-6

2.1 ISO/IEC 14443-1:2008 (2nd Edition)

The 2nd edition of the standard:
*ISO/IEC 14443-1:2008, Identification cards - Contactless integrated circuit cards - Proximity cards - **Part 1: Physical characteristics***

was published on 2008-06-15.

2.2 ISO/IEC 14443-2:2010 (2nd Edition)

The 2nd edition of the standard:

*ISO/IEC 14443-2:2010, Identification cards - Contactless integrated circuit cards -Proximity cards - **Part 2: Radio frequency power and signal interface***

was published on 2010-09-01.

2.3 ISO/IEC 14443-3:2011 (2nd Edition)

The 2nd edition of the standard:

*ISO/IEC 14443-3:2001, Identification cards - Contactless integrated circuit(s) cards - Proximity cards - **Part 3: Initialization and anticollision***

was published on 2011-04-15.

2.4 ISO/IEC 14443-4:2008 (2nd Edition)

The 2nd edition of the standard:

*ISO/IEC 14443-4:2008, Identification cards - Contactless integrated circuit cards - Proximity cards - **Part 4: Transmission protocol***

was published on 2008-07-15.

2.5 ISO/IEC 10373-6:2011 (2nd Edition)

The 2nd edition of the standard:

*ISO/IEC 10373-6, Identification cards - **Test methods - Part 6: Proximity cards***

was published on 2011-01-15.

2.6 Amendments regarding "Electromagnetic disturbence" (EMD)

2.6.1 ISO/IEC 14443-2:2010/Amendment 1 (formerly numbered 3)

*ISO/IEC 14443-2:2010, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - **Amendment 1: Limits of electromagnetic disturbance levels parasitically generated by the PICC***

will be published on 2011-10-15.

2.6.2 ISO/IEC 14443-3:2011/Amendment 1 (formerly numbered 4)

*Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - **Amendment 1: Electromagnetic disturbance handling and single size UID***

will be published on 2011-10-15.

2.6.3 ISO/IEC 10373-6:2010/Amendment 9

*Identification cards - Test methods - Part 6: Proximity cards - **Amendment 9: Test methods for electromagnetic disturbances***

submitted to ISO/IEC by the SC17 Secretariat for FDIS ballot, will probably be published in February 2012.

2.7 Amendments regarding “Additional PICC classes”

2.7.1 ISO/IEC 14443-1:2008/Amendment 1

*Identification cards - Contactless integrated circuit cards - Proximity cards - Part 1: Physical characteristics - **Amendment 1: Additional PICC classes***

SC17 Secretariat is asked to check the situation. No clear status information is available.

2.7.2 ISO/IEC 14443-2:2010/Amendment 2 (formerly numbered 4)

*Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - **Amendment 2: Additional PICC classes***

submitted to the SC17 Secretariat for initating the FDIS ballot.

2.7.3 ISO/IEC 10373-6:2011/Amendment 8

*Identification cards - Test methods - Part 6: Proximity cards - **Amendment 8: Additional PICC classes***

submitted to ISO/IEC by the SC17 Secretariat for FDIS ballot, will probably be published in February 2012.

2.8 Amendments regarding “Exchange of additional parameters”

2.8.1 ISO/IEC 14443-4:2008/Amendment 1

*Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - **Amendment 1: Exchange of additional parameters***

passed successfully the FDIS ballot and could be published at once. But WG8 had to deal with a “last-minute” correction at its meeting in Song-Do. As a consequence WG8 asked the SC17 Secretariat to start a corrigendum procedure. WG8 expects that the very small but important correction will be approved and integrated into the text of the approved FDIS. Then publication procedure can be continued, probably by February 2012.

2.8.2 ISO/IEC 10373-6:2011/Amendment 11

*Identification cards - Test methods - Part 6: Proximity cards - **Amendment 11: Exchange of additional parameters***

will be submitted to the SC17 Secretariat for initating the FDIS in November 2011.
Note to the SC17 Secretariat: is the amendment number 11 correct?

2.9 Amendments regarding "Very high bit rate" (VHBR)

WG8 reconsidered the proposed VHBR technologies at its 49th meeting in Ispra, Italy and agreed unanimously the Resolution 49.03:

49.03 Separation of the VHBR amendments
WG8 decides to separate the VHBR amendments to 14443-2, 14443-3 and 14443-4 each into one part related to the ASK method to be used for the bit rates higher than fc/16 up to fc/2 and into one further part related to the PSK method to be used for bit rates higher than fc/2.

The reason for that decision was that WG8 is convinced that the data rates using ASK (Type B method) of nowadays 14443 infrastructure can quite easily be applied up to 6,8 Mbit/s, whereas the PSK method, to be considered for data rates higher than 6,8 Mbit/s, assumingly needs more investigaton time. WG8 has been confident that the ASK related amendments have a good chance to be published and thus be available to the market quite soon.
It is seen encouraging by the market that for the spectrum of data rates higher than 848 kbit/s only one single modulation type will be used, instead of two types for the data rates below.

As a consequence, there are 4 amendments (3 for 14443-2, -3, -4 and 1 for 10373-6) being processed for the ASK method (VHBR ASK) and 4 amendments for the PSK method (VHBR PSK).

2.9.1 VHBR ASK

2.9.1.1 ISO/IEC 14443-2:2010/Amendment 3

*Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - **Amendment 3: Bit rates of fc/8, fc/4 and fc/2***

2.9.1.2 ISO/IEC 14443-3:2011/Amendment 2

*Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - **Amendment 2: Bit rates of fc/8, fc/4 and fc/2 and frame size from 512 to 4096 bytes***

2.9.1.3 ISO/IEC 14443-4:2008/Amendment 2

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - ***Amendment 2: Bit rates of fc/8, fc/4 and fc/2, protocol activation of PICC Type A and frame sizes from 512 to 4096 bytes***

All three above amendments successfully passed their FCD ballots and are going to be submitted to the SC17 Secretariat for initiating the FDIS balloting. Publication is expected in February 2012.

2.9.1.4 ISO/IEC 10373-6:2011/Amendment 4

Identification cards - Test methods - Part 6: Proximity cards - ***Amendment 4: Bit rates higher than fc/16 and up to fc/2***

passed successfully the CD ballot will be submitted to the SC17 Secretariat for FCD ballot.

2.9.2 VHBR PSK

2.9.2.1 ISO/IEC 14443-2:2010/Amendment 5

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - ***Amendment 5: Bit rates of 3fc/4 and fc***

successfully passed its CD ballot and is going to be submitted to the SC17 Secretariat for 2nd CD balloting.

2.9.2.2 ISO/IEC 14443-3:2011/Amendment 6

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision - ***Amendment 6: Bit rates of 3fc/4 and fc***

2.9.2.3 ISO/IEC 14443-4:2008/Amendment 3

Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol - ***Amendment 3: Bit rates of 3fc/4 and fc***

2.9.2.4 ISO/IEC 10373-6:2011/Amendment 5

Identification cards - Test methods - Part 6: Proximity cards - ***Amendment 5: Bit rates of 3fc/4 and fc***

The three above amendments passed successfully their CD ballots. Due to hundreds of received comments the time of the last WG8 meeting was not sufficient. Their resolutions are planned for the next WG8 meeting.

2.10 ISO/IEC 10373-6:2001/Amendment 7

*Identification cards - Test methods - Part 6: Proximity cards - **Amendment 7: Test methods for ePassport***

was published on 2010-03-15.

Due to the situation that ISO/IEC 10373-6:2011 had been published and a few contributions for improvements have been received, **WG8 asks SC17 for giving the mandate to WG8 for the revision of the Amendment 7.**
Government Representatives have raised the concern in WG3 that the related ICAO Technical Reports, although not actualized, seem to be preferred because being freely downloadable from the ICAO website. **WG8 asks SC17 to check whether exceptional rules for free access may be applicable for the Amendment 7.**

2.11 Technical Report PDTR xxxxx on "Multiple PICCs in a single PCD field"

*Identification cards — Contactless integrated circuit cards — Proximity cards — **Multiple PICCs in a single PCD field***

will be submitted to SC17 for PDTR balloting.

2.12 Actual developments WG8's Task Force 2 (WG8/TF2)

TF2 is currently developing the following topics:

- PICCs with external power supply
  NP had been approved early 2011. A WD is being developed, possibly ready for CD ballot by October 2012.

- Additional test methods
  is just a continuation of the permanent maintenance process of ISO/IEC 10373-6.

- Enhanced Frame characteristics
  will care for better data transfer quality. Result is intended to become an optional method which will e.g. make it possible to self-correct bit errors when mistakenly received.
  That project is seen by WG8 to be covered by the usual maintenance of ISO/IEC 14443-3 and 14443-4. **WG8 asks SC17, whether an NP procedure is necessary.**

- Extended Proximity Device (EPD)
  that activity, pending its approval, is a consequence of the PWI into "Specifying the specific needs of mobile devices using the ISO/IEC 14443 methods" (SC17 Resolution 639/10).
  WG8 asks SC17 to start the NP procedure with

WG8 N 1848, i.e. the NP form, see attached to this report, or downloadable from:
http://wg8.de/wg8n1848_NWIP_Alternating_PICC_and_PCD_support_V2a.rtf
together with the very first Working Draft, downloadable from:
http://wg8.de/wg8n1835_tf2n704_WD_14443-3_Amdx_Alternating_PICC_and_PCD_support.zip
For additional information illustrating the great potential of the proposed starting point of such activity the powerpoint WG8 N 1836 can be downloaded from:
http://wg8.de/wg8n1836_tf2n705_Alternating_PICC_and_PCD_support_V6.ppt

3. ISO/IEC 15693, Vicinity cards (VICCs) , and its related test methods ISO/IEC 10373-7

3.1 ISO/IEC 15693-1:2010 (2nd Edition)

The 2nd edition of the standard:

*ISO/IEC 15693-1:2010, Identification cards - Contactless integrated circuit cards - Vicinity cards - **Part 1: Physical characteristics***

was published on 2010-10-01.

3.2 ISO/IEC 15693-2:2006 (2nd Edition)

The 2nd edition of the standard:

*ISO/IEC 15693-2, Identification cards - Contactless integrated circuit cards - Vicinity cards - **Part 2: Radio frequency power and signal interface***

was published on 2006-12-04.

3.3 ISO/IEC 15693-3:2009 (2nd Edition)

The 2nd edition of the standard:

*ISO/IEC 15693-3, Identification cards - Contactless integrated circuit cards - Vicinity cards - **Part 3: Anti-collision and transmission protocol***

was published on 2009-04-15.

3,4 ISO/IEC 10373-7:2008 (2nd Edition)

The 2nd edition of the standard:

*ISO/IEC 10373-7, **Test methods - Part 7: Vicinity cards***

was published on 2008-05-01.

3,5 Request from SC31 to publish the AFI table onto the SC17 website

Craig Harmon from SC31 sent WG8 a proposal, whether it wouldn't be helpful for the industries to make the standardized AFI tables (Application Family Identifier), both the one used in SC31 and the ones in SC17, available in the internet. The SC31 one has been already made available on the SC31 website. **Question is, whether that could be done equally in SC17.**

4. How to deal with many amendments?

Based on concerns having been expressed and raised by Japan, WG8 considered the problem how to deal with many amendments.
WG8 is aware of the new rule from the current JTC1 Directives that no more than 2 published amendments to a standard should exist. However, WG8 efforts for improving its standards will always and continuously develop amendments, so that it may happen that one or more amendments are in development or in balloting process when a 2nd of two allowed amendments is published. WG8 found out in the JTC1 Directives a solution for coming out of such a dilemma:
As soon two amendments to a standard are published, those are purely editorially integrated into the related standard and SC17 asks JTC1 for re-publishing the newly edited standard, without any balloting process. **Can the SC17 Secretariat confirm such a simplified procedure?**

5. How to deal with patents?

Following a request from Japan, **WG8 asks SC17 to clarify the procedure how to call for patent declarations** which may be related to standards being developed. In this respect WG8 asks whether the former rule that NBs are asked after patents with the first balloting step (usually CD) is and will be still applicable.
That clarification will serve to resolve pending comments from Japan to a few ballots.

6. Harmonization of ISO/IEC 14443 and NFC standards

Harmonization activities have been considered for almost 4 years. No considerable improvement has been achieved in SC6 for developing a standard of high quality and reflecting the actual market needs, which enables and motivates the involved industries in an acceptable way to take it into account for using it in their products and thus provide 14443 compatibility in mobile devices. Definitely, the current version of DIS 21481 does not sufficiently reflect the needs of SC17.

Waiting for longer time under the existing collaboration conditions seems to be unacceptable. A major reconsideration and change in the work methods for the harmonization related SC17/SC6 cooperation should be seen as absolutely necessary. The following facts explain and prove that necessity in detail:

a) DIS 21481 declares explicitely a device conformant with it, when the device is able to be compatible to all 4 roles, i.e. to NFCIP1 (ISO/EC 18092), to the PICC and PCD role (ISO/IEC 14443) and to the VCD role (ISO/IEC 15693). That means that all four modes (NFCIP 1, PICC, PCD und VCD Mode) have to be implemented.

b) As a consequence, if a device is equipped only with the PICC and the PCD role and fulfills the compliance rules according to 14443, that device is declared as not compliant with ISO/IEC 21481.

c) DIS 21481 defines only a manual mode selection. State-of-the-art is, however, to allow automatic mode selection. The current proposal in WG8 has defined that for automatic selection of the PICC or PCD mode, which will make a mobile device easier to use. That proposal is open to adopt further modes for automatic mode selection, namely to consider the NFCIP1 mode or the VCD mode.

d) The NFCIP1 and VCD modes, however, are seen by WG8 as optional modes, because most of the worldwide existing contactless products are PICC or PCD compatible according to 14443, but almost none of them compliant to 21481. Therefore, if a mobile device will wish (optionally!) to be compliant with the to be developed standard in SC17, it shall be able to be in the role either of a PICC or of a PCD. No more mandatory modes are necessary.

e) DIS 21481 does not define the situation, what happens when leaving a mode.

f) No test methods related to 21481 have been defined. Note, that the standard has existed since 2004!

g) DIS 21481 states at the end of its introduction:
„In 2009, SC06 and SC17 studied together for improving interoperability between ISO/IEC 21481 and ISO/IEC 14443. This second edition of ISO/IEC 21481 is revised based on the study, and the PICC mode is added to the existing three modes."
That looks nice but hides the reality, namely by adding the PICC mode the standard has become more complex, whereas the problems having existed for many years (see above) haven't been resolved.

The situation shows that SC6' relatively little competence and expertise in contactless technology may be one of the reasons that major and convincing improvements could not be achieved in 21481 within 7 years! SC17 with its great expertise and experience (for meanwhile 22 years!) would have resolved the existing problems within a few months. The involvment of SC17 experts in the relevant SC6 activities obviously were not able to let SC6 agree on wished improvements, which would be seen as successful from SC17's point of view.

There are probably two possible chances for achieving progress in the above described dilemma situation:

A) 21481 process in SC6 is being set on hold, until SC17 will have resolved most of the 21481 problems by developing an own standard according to SC17's needs after the

approval of the proposed NP (see clause 2.12, last item). When finalized, and as a consequence, 21481 may have to be technically revised, so that at the end mutual references between 21481 and 14443 will finally lead to an acceptable and desired harmonzation result.

B) 21481 is mostly relevant to SC17 standards. Due to the relatively little competence in SC6 compared with the many years great expertise and experience in SC17 in contactless technology it might be more logic to let 21481 move under the umbrella of SC17. When so done, it can be forseen that 21481 will be drastically improved within months.

Either of the options A and B makes a constructive and understanding position of SC6 necessary. Whatever option will be chosen by SC6, either A, or B or none of them, the necessary general aspects of the tasks in SC17 have been identified and are almost identical in those three cases. **The relevant specification work in SC17 should be started as soon as possible.**

Last not least, an open issue has still been the establishment of a Liaison between the NFC Forum and SC17. At the last SC17 plenary the situation was that the legal issues should be clarified with the ISO/IEC Central Secretariat, to which degree it may be acceptable for exchanging documents and specifications into either direction between SC17 and the NFC Forum. **If it was found out that the legal conditions would be too complicated, the project "Liaison with the NFC Forum" should be abandoned.**

7. Appreciations

WG8 expresses its thanks
- to all the Project Editors of the WG8 standards, who have guided the WG8 delegates so well through plenty of ballot comments and provided excellently the many standard drafts,
- to the SC17 Secretary for his very helpful and reliable guidance and
- to the NBs of Italy and Korea for having let WG8 and its Task Force TF2 meet in their countries under excellent conditions.

8. WG8 Website

The WG8 website consists basically of two sections, one of which is public and the other one is password protected.
The public section consists of general information about the structure of WG8, its projects, meeting dates, and documents lists. This section can be accessed via the URL:

http://wg8.de

Any person authorized by a National Body can request the ID/password for accessing the WG8 website from the WG8 Secretariat via e-mail to office@wg8.de .

9. Next meetings

TF2	2012-01-31/02-03,	in France (venue t.b.d.)
WG8 & TF2	2012-04-16/20,	in Graz, Austria
WG8 & TF2	2012-09-24/28,	in New Orleans, U.S.A.

Michael Hegenbarth
Convener ISO/IEC JTC1/SC17/WG8

NEW WORK ITEM PROPOSAL	
Date of presentation	Reference number (to be given by the Secretariat)
Proposer **SC17/WG8**	**ISO/TC JTC1 / SC 17** N ???
Secretariat BSI	

A proposal for a new work item within the scope of an existing committee shall be submitted to the secretariat of that committee with a copy to the Central Secretariat and, in the case of a subcommittee, a copy to the secretariat of the parent technical committee. Proposals not within the scope of an existing committee shall be submitted to the secretariat of the ISO Technical Management Board.

The proposer of a new work item may be a member body of ISO, the secretariat itself, another technical committee or subcommittee, or organization in liaison, the Technical Management Board or one of the advisory groups, or the Secretary-General.

The proposal will be circulated to the P-members of the technical committee or subcommittee for voting, and to the O-members for information.

See overleaf for guidance on when to use this form.

IMPORTANT NOTE: Proposals without adequate justification risk rejection or referral to originator.
Guidelines for proposing and justifying a new work item are given overleaf.

Proposal (to be completed by the proposer)

Title of proposal (in the case of an amendment, revision or a new part of an existing document, show the reference number and current title)

English title **Alternating support of PICC and PCD roles**

French title (if available) **Support alternatif des rôles de PICC et PCD**

Scope of proposed project

This standard is going to define the requirements to optionally enable a device to alternate between roles of PCD and PICC, defined in ISO/IEC 14443. Automatic and manual alternation will be considered. Dedicated test methods to maximise interoperability between existing PICCs and PCDs and devices alternating roles of PCD and PICC will be defined. In addition, metallic environments will be considered and specific tests methods will be defined.

Concerns known patented items (see ISO/IEC Directives Part 1 for important guidance)

☐ Yes ☒ No If "Yes", provide full information as annex

Envisaged publication type (indicate one of the following, if possible)

☒ International Standard ☐ Technical Specification ☐ Publicly Available Specification ☐ Technical Report

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

ISO/IEC 14443 has been widely implemented in a variety of application sectors. However, the 14443 compliant products have mostly been used either in their role as a PICC (contactless card) or as a PCD (contactless reader). New developments are beginning to request products, which are able to operate in both roles PICC or PCD, in an interoperable and user-friendly manner.

For example, a mobile phone sensing the presence of a 14443 compliant ticket machine will switch into PICC mode, or vice versa, a mobile phone sensing the presence of a 14443 compliant contactless card will switch into PCD mode.

Also the mobile phone is wished to work as a PCD when it should be connected with a 14443 compliant bank card (PICC) and thus is able to provide a secure connection between that bank card via the mobile phone and via a mobile phone network to a remote bank application server. The latter use case is in principle also desired and applicable e.g. for policemen, checking and verifying a 14443 compliant eID card or driving license, etc., against the stored and authenticated data in a remote government server.

Many other use cases may be raised using the above described application principles, showing additionally the high market potential for devices which are able to take the role of a PCD or a PICC.

The goal of this project shall consider backwards compatibility with existing 14443 compliant systems.

Target date for availability (date by which publication is considered to be necessary) 2012-12-31

Proposed development track ☐ 1 (24 months) ☒ 2 (36 months - default) ☐ 3 (48 months)

Relevant documents to be considered

ISO/IEC 14443 & Amendments, ISO/IEC 10373-6 & Amendments

Relationship of project to activities of other international bodies

Liaison organizations	**Need for coordination with:** ☐ IEC ☐ CEN ☐ Other (please specify)

Preparatory work (at a minimum an outline should be included with the proposal)

☒ A draft is attached ☐ An outline is attached. It is possible to supply a draft by

The proposer or the proposer's organization is prepared to undertake the preparatory work required ☒ Yes ☐ No

Proposed Project Leader (name and address)	**Name and signature of the Proposer** (include contact information)

Comments of the TC or SC Secretariat

Supplementary information relating to the proposal

☐ This proposal relates to a new ISO document;

☒ This proposal relates to the amendment/revision of an existing ISO document;

☐ This proposal relates to the adoption as an active project of an item currently registered as a Preliminary Work Item;

☐ This proposal relates to the re-establishment of a cancelled project as an active project.

Other:

Voting information

The ballot associated with this proposal comprises a vote on:

☒ Adoption of the proposal as a new project

☐ Adoption of the associated draft as a committee draft (CD)

☐ Adoption of the associated draft for submission for the enquiry vote (DIS or equivalent)

Other:

Annex(es) are included with this proposal (give details)

☐

Date of circulation	Closing date for voting	Signature of the TC or SC Secretary

Use this form to propose:

a) a new ISO document (including a new part to an existing document), or the amendment/revision of an existing ISO document;

b) the establishment as an active project of a preliminary work item, or the re-establishment of a cancelled project;

c) the change in the type of an existing document, e.g. conversion of a Technical Specification into an International Standard.

This form is not intended for use to propose an action following a systematic review - use ISO Form 21 for that purpose.

Proposals for correction (i.e. proposals for a Technical Corrigendum) should be submitted in writing directly to the secretariat concerned.

Guidelines on the completion of a proposal for a new work item

(see also the ISO/IEC Directives Part 1)

a) Title: Indicate the subject of the proposed new work item.

b) Scope: Give a clear indication of the coverage of the proposed new work item. Indicate, for example, if this is a proposal for a new document, or a proposed change (amendment/revision). It is often helpful to indicate what is not covered (exclusions).

c) Envisaged publication type: Details of the types of ISO deliverable available are given in the ISO/IEC Directives, Part 1 and/or the associated ISO Supplement.

d) Purpose and justification: Give details based on a critical study of the following elements wherever practicable. *Wherever possible reference should be made to information contained in the related TC Business Plan*.

1) The specific aims and reason for the standardization activity, with particular emphasis on the aspects of standardization to be covered, the problems it is expected to solve or the difficulties it is intended to overcome.

2) The main interests that might benefit from or be affected by the activity, such as industry, consumers, trade, governments, distributors.

3) Feasibility of the activity: Are there factors that could hinder the successful establishment or global application of the standard?

4) Timeliness of the standard to be produced: Is the technology reasonably stabilized? If not, how much time is likely to be available before advances in technology may render the proposed standard outdated? Is the proposed standard required as a basis for the future development of the technology in question?

5) Urgency of the activity, considering the needs of other fields or organizations. Indicate target date and, when a series of standards is proposed, suggest priorities.

6) The benefits to be gained by the implementation of the proposed standard; alternatively, the loss or disadvantage(s) if no standard is established within a reasonable time. Data such as product volume or value of trade should be included and quantified.

7) If the standardization activity is, or is likely to be, the subject of regulations or to require the harmonization of existing regulations, this should be indicated.

If a series of new work items is proposed having a common purpose and justification, a common proposal may be drafted including all elements to be clarified and enumerating the titles and scopes of each individual item.

e) Relevant documents and their effects on global relevancy: List any known relevant documents (such as standards and regulations), regardless of their source. When the proposer considers that an existing well-established document may be acceptable as a standard (with or without amendment), indicate this with appropriate justification and attach a copy to the proposal.

f) Cooperation and liaison: List relevant organizations or bodies with which cooperation and liaison should exist.