ISO / IEC JTC1 / SC22
Programming languages, their environments and system software interfaces
Secretariat: CANADA (SCC)

ISO/IEC JTC1/SC22

N 1376

MAY 1993

TITLE: Proposal, submitted by WG11, for a NWI on:
Guidelines for the preparation of Language
independent service specifications

SOURCE: Secretariat ISO/IEC JTC1/SC22

WORK ITEM: N/A

STATUS: New

CROSS REFERENCE: N/A

DOCUMENT TYPE: NWI proposal/letter ballot

ACTION: For review and action by SC22 Member Bodies.
SC22 MBs are requested to complete the attached
letter ballot and return it to the SC22 Secretariat
by 1993-08-31.

PROPOSAL FOR A NEW WORK ITEM	
date of presentation of proposal 1993-05-14	proposer JTC1/SC22/WG11
secretariat NNI	ISO/IEC JTC

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 — to be completed by the proposer

Guidelines for proposing and justifying a new work item are given in ISO Guide 26. For ease of reference an extract is given overleaf.

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

Guidelines for the Preparation of Language Independent Service Specifications

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Scope (and field of application)

To give guidance to those preparing language independent service specifications which are to be bound to programming languages.

Purpose and justification — attach a separate page as annex, if necessary
See attachement.

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: ......)
- ☐ a multi-part International Standard consisting of ...... parts
- ☐ an addendum or addenda to the following International Standard(s): ....
- ☒ a technical report, type .3...

Relevant documents to be considered
See attachement.

Co-operation and liaison
See attachement.

Preparatory work offered with target date(s)
See attachement.

Signature:

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	yes	no
Will the services of a maintenance agency or registration authority be required?	☐	☒
If yes, have you identified a potential candidate	☐	☐
If yes, indicate name:		
Are there any known requirements for coding?	☐	☒
If yes, please specify on a separate page		
Does the proposed standard concern known patented items?	☐	☒
If yes, please provide full information at annex		

Comments and recommendations of the JTC secretariat — attach a separate page as annex, if necessary

Comments with respect to the proposal in general, and recommendations thereon
It is proposed to assign this new item to SC   /WG

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 the JTC secretary

Proposal for a New Work Item for
Guidelines for the Preparation of
Language Independent Service Specifications

Purpose and justification.

With the growth of interest and activity in the area of open systems, services used from within programming languages are increasingly being conceived and developed for use with a variety of languages. These may be developed initially with one language as the target with bindings to other languages following later, but this can create problems because assumptions that are correct for one language may not hold true for all. On the other hand, language independent specifications can be done in a variety of ways each presenting their own binding problems.

Following early experience in producing language bindings, TR 10182 Guidelines for Language Bindings (at the time of writing to be published by ITTF)) was produced to give guidance to those designing the language bindings, but there is no general source of similar guidance for those writing language independent service or interface specifications, so that they may do so in a way which facilitates the development of language bindings. The proposed technical report will fill that gap. As well as addressing specifications written from scratch in language independent form, it will provide guidance for those converting specifications produced in language-specific form to a language independent form.

The guidelines will take into account, as relevant, the outcome of the work of the SC22 Cross Language Issues Ad Hoc Group (established by SC22 Plenary resolutions of 1992), existing language independent specifications produced within JTC1 Subcommittees (SC21, SC22, SC24 and others), and organisations outside JTC1.

If, during the development of the Technical Report, it becomes apparent that additions, updates, modifications or clarifications are needed to the Guidelines for Language Bindings, TR 10182, these will be recorded separately, as required, for use in any further revision of TR 10182. The Technical Report will not encroach on the scope of TR 10182 by including guidelines for language bindings, though it will, where appropriate, relate its guidelines to the relevant parts of TR 10182.

Relevant documents to be considered

TR 10182 – Guidelines for Language Bindings
ISO/IEC JTC1/SC22 N1251 Programming Language Independent Specification Methods (IEEE TCOS-LIS/D4).

Co-operation and liaison

Other SC22 WGs, especially WG15 POSIX, and, as appropriate, other standards groups or organizations concerned with language-independent specifications.

Preparatory work offered with target date(s)

Material from document ISO/IEC JTC1/SC22/N1251 (IEEE TCOS-LIS/Draft 4, Programming Language Independent Specification Methods) will form the basis for the proposed TR.

ISO / IEC JTC1 / SC22

Programming languages, their environments and system software interfaces

Secretariat: CANADA (SCC)

LETTER BALLOT

From the MEMBER BODY of:_____

On a proposal for a NWI for SC22 on: Guidelines for the preparation of Language independent service specifications.ng.

This Letter Ballot is to be returned by each 'P' Member Body to the SC22 Secretariat of JTC1/SC22 **by 1993-08-31**.

* We support this proposal.

                         or

* We support this proposal with the attached comments.

                         or

* We do not support this proposal for the technical reasons attached to this ballot.

                         or

* We abstain from voting.
  ('P'Member Bodies have an obligation to vote.)

* <u>DELETE WHICHEVER DOES NOT APPLY</u>.

Place and Date:_____

Signature:_____