BUSINESS PLAN FOR JTC 1/SC22 WG11

PERIOD COVERED: July 2006 – June 2007

SUBMITTED BY:

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1. MANAGEMENT SUMMARY:

1.1 JTC 1/SC22 WG11 Statement of Scope

Development of ISO/IEC Standards and Technical Reports related to Binding Techniques and (Programming) Language Independent Issues.

1.2 Project Report

1.2.1 Completed Projects

JTC1.22.14 -- ISO/IEC TR 10182:1993 – Language Bindings Guidelines

JTC1.22.17 -- ISO/IEC 11404:1996 – Language Independent Datatypes

JTC1.22.16 -- ISO/IEC 13886:1996 – Language Independent Procedure Calling

JTC1.22.46 -- ISO/IEC TR 14369:1999 – Guidelines for the Preparation of Language Independent Service Specifications

JTC1.22.28 -- ISO/IEC 10967-1:1994 – Language Independent Arithmetic, Part 1: Integer and Floating Point Arithmetic

JTC1.22.33 -- ISO/IEC 10967-2:2001 – Language Independent Arithmetic, Part 2: Elementary Numerical Functions

JTC1.22.33 -- ISO/IEC 10967-3:2006 – Language Independent Arithmetic, Part 3: Complex Floating Point Arithmetic and Complex Elementary Numerical Functions

1.2.2 Projects Underway

ISO/IEC 10967 -- Language Independent Arithmetic
With the publication in 2006 of part 3 of ISO/IEC 10967 – Language Independent Arithmetic – the project, originally defined by WG11 back in 1990, was finalized.
However, with a part 1, published in 1996, as base document for the following parts it was recognized that at some point in time (preferably after the publication of the last part) a thorough review of all parts should be done with the aim of fully aligning all parts. That moment now has come.

Description of the work:

— the review should be aimed at aligning the concepts and terminology; no introduction of new features;
— the review of the FDIS ballot comments (mainly form Japan) on LIA-3 should finalized.

Most of the work is on part 1 where the 'newer' approach towards IEC 60559, used in parts 2 and 3, should be applied; the work on the other parts should be simpler and more straight forward.

Note: the possible outcome of the revision process of IEC 60559 is (at this moment) not taken into account; should a new version of IEC 60559 be published before the revision of ISO/IEC 10967 is finished, the consequences of the revised 60559 for the revised 10967 will be described (possibly in an annex).

Therefore the following scheme is proposed:

1. a (reasonable complete) working draft of the revised part 1 is made available to WG11 for review and comment; this document is available as WG11 N507 (www.open-std.org/SC22/WG11/docs/N507.pdf); comments preferably before September 5th, 2007.

2. by the end of September 2007: start of the registration ballot of the revised 10967-1.

3. permission will be asked from the SC22 Plenary in September to have combined registration and FCD ballots for parts 2 and 3.

4. assuming that all goes well with points 2 and 3, simultaneous FCD level ballots for all parts can take place (early spring 2008?).

JTC1.22.17 -- ISO/IEC 11404:200x – General Purpose Datatypes
ISO/IEC 11404 is under revision.
After an intense fight between MS Word on the one hand and the required mathematical symbols and fonts on the other hand (ITTF was not able to help in any way in this area) the project editor delivered the FDIS file to ITTF early March 2007. There is no indication if ITTF is happy with the file, and, if so, when the FDIS ballot will start.

1.3 Cooperation and Competition

The WG11 documents are mainly produced to be used by other programming language committees. Therefore, WG11 maintains liaisons with many of the SC22 WGs.

All approved WG11 documents are freely available from the ITTF website (and from the WG11 website).

2. PERIOD REVIEW

2.1 Market Requirements

There are no clearly defined market requirements for the WG11 projects; however several ISO/IEC standards make reference to the documents. There is thus apparently an indirect market requirement.

2.2 Achievements

Despite the sometimes small participation in WG11, a number of high quality ISO standards have been produced.

2.3 Resources

WG11 resources have been a problem for the past years, and continue to be so. Attendance is very low, and project editors are difficult to find.

3. FOCUS NEXT WORK PERIOD

3.1 Deliverables

Revised versions of ISO/IEC 11404 and ISO/IEC 10967.

3.2 Strategies

3.2.1 Risks
Participation is a clear risk for the progression of the WG11 work.

The SC22 Member Bodies are invited to provide resources so that WG11 at least can finalize its current work items.

A more general risk in the work of SC22, and hence in the work of WG11, is the way in which ITTF operates. Examples are:

— the inability of ITTF to act quickly: it took ITTF 7 months to implement the JTC1 1 Resolution on the free availability of SC22 documents;

— the inability of ITTF to help project editors with problems they encounter while using ITTF-prescribed tools (MS Word);

— the inability of ITTF to act transparently: emails are not answered, delays are not announced (and certainly not explained).

3.2.2 Opportunities
No further opportunities have been identified.

3.2.3 Work Program Priorities
The revision of ISO/IEC 11404 and ISO/IEC 10967.

4. ADMINISTRATIVE INFORMATION

4.1 WG11 Liaisons

Liaisons exist with the following SC22 WGs: WG4 – COBOL, WG9 – Ada and WG14 – C.

Mr. Frank Farance is acting liaison between SC32/WG2 and WG11 on issues related to the revision of ISO/IEC 11404.

5. SC22 PLENARY ACTIONS RELATED TO WG11

WG11 requests SC22 to approve combined registration and FCD ballots on the revisions of ISO/IEC 10967 parts 2 and 3.