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SC 22 Document N xxxx

Business Plan for ISO/IEC JTC 1/SC 22

For the Period 2012-10 to 2013-09

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1. Management Summary

1.1 Chairman's Remarks

SC 22 continues to operate very well. While some WGs' membership and marketplace relevance are in decline, others are on the increase. All are operating in a manner appropriate to their needs.

WGs continue to monitor and to consider support for new[er] technologies, such as concurrency, multi-core processors, high-performance computing, and object-oriented and other methodologies.

SC 22 currently has 20 "P" Members (CA, CH, CN, DE, DK, ES, FI, FR, GB, GH, IT, JP, KR, KZ, NL, PT, RO, RS, UA, and US) and 24 "O" Members (AR, AT, BE, BG, CU, CZ, EG, GR, HU, ID, IE, IN, IR, IS, KE, KP, MY, NO, PL, SE, SG, SI, TH, and YU).

CN attended its first plenary this year.

SC 22 holds its plenary on an annual basis, five to six weeks prior to the JTC 1 plenary. Between plenaries, formal business is carried out via letter ballots, and informal business is carried out via an email list. All committee documents are posted on Live Link. At most, one WG meets in conjunction with the plenary.

Mr. Rex Jaeschke (US) continued as chair of SC 22. The Secretariat remains with ANSI (US), which was under the direction of Ms. Marisa Peacock.

1.2 Statement of Scope

SC 22 is responsible for the standardization of programming languages (such as COBOL, Fortran, Ada, C, C++, and Prolog) and their environments (such as POSIX). SC 22 also produces common language-independent specifications to facilitate standardized bindings between programming languages and system services, as well as greater interaction between programs written in different languages.

The most recently created WG has a project to document the vulnerabilities of various programming languages.

Program portability between different implementations of the same language is a key goal.

1.3 Project Report

Full details of SC 22's operation can be found in the SC 22 Secretary's Report (document SC 22 N 4828).

1.4 Cooperation and Competition

SC 22 maintains external liaisons with the following:

- Ecma International (which has Fast-Tracked a number of specifications, including ECMAScript, C#, Common Language Interface, and Eiffel)
- Linux Foundation (formerly a PAS submitter)

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SC 22 maintains internal liaisons with the following:

- ISO TC 37, Terminology and other language and content resources
- JTC 1/SC 2, Coded Character Sets
- JTC 1/SC 7, Software and Systems Engineering
- JTC 1/SC 27, IT Security techniques

SC 22 participates in the work of the Austin Joint Working Group, which maintains the portable operating system, POSIX, specification.

2. Period Review

2.1 Market Requirements

The classic programming languages, for which SC 22 is well known, remain popular with major development work going on (or having been completed recently) in COBOL, Fortran, C, C++, and Ada. There is considerable interest in the WG documenting vulnerabilities of various programming languages.

2.2 Achievements

In the past year, SC 22 has worked on maintenance as well as the following activities:

- a. Published ISO/IEC 8652:2012, *Ada programming language*
- b. Published ISO/IEC TR 24772:2012, *Guidance to Avoiding Vulnerabilities in Programming Languages through Language Selection*. This is a Technical Report type 3.
- c. Started work on a standard for *Code Signing for Source Code*

2.3 Resources

The C and C++ language WGs continue to have high participation, both in the number of members and NBs. The same is true for the WG documenting vulnerabilities of various programming languages. Participation in the other active WGs ranges from adequate to good.

2.4 Environmental Issues

Not applicable.

2.5 Participation Metrics

The SC 22 plenary continues to attract 10–15 delegates from six or seven NBs and one or two liaisons.

Active WGs report a solid attendance from their core members. Participation has improved in some groups due to the use of teleconferencing.

Neither SC 22 nor its WGs have had problems getting the necessary participation in letter ballots.

3. Focus Next Work Period

3.1 Deliverables

1. WG4 (COBOL)
 - a. Publication of the revision of the COBOL standard ISO/IEC 1989:2002
2. WG5 (Fortran)
 - a. TS on Additional Parallel Features in Fortran
3. WG9 (Ada)
 - a. Maintenance of ISO/IEC 14519:2001, Ada Binding to POSIX
4. WG14 (C)
 - a. Floating-Point extensions for C
5. WG17 (Prolog)
 - a. A TS on Definite clause grammars
6. WG21 (C++)
 - a. The next edition of the core standard
 - b. A TS on file-system support
 - c. A TS for a networking library
 - d. A TS for template constraints language extensions
7. WG23 (Programming Language Vulnerabilities)
 - a. A revision of Guidance to Avoiding Vulnerabilities in Programming Languages through Language Selection.
 - b. A standard for Code Signing for Source Code

3.2 Strategies

As all groups have operated satisfactorily this past year, they plan to keep doing what they are already doing well.

3.2.1 Risks

None

3.2.2 Opportunities

None

3.3 Work Program Priorities

Perform maintenance on existing standards and TRs, and, for some WGs, to start or continue work on revisions. Basically, it's "business as usual".

3.3.1 Archival Policy

Each WG is responsible for maintaining an archive of its own documents.

4. Issues or Needs

None.

5. The Use of Teleconferencing for Plenaries

After the initial pilot of providing teleconferencing (via WebEx) to the 2012 Plenary in Geneva, CH, this was done again for the 2013 Plenary in Tokyo, JP. Four people participated remotely: three WG conveners from the US presented their reports, with two of them staying on to participate in the debate of a paper; an NB delegate from Europe (whose NB was not otherwise represented) joined to report on a number of liaison topics, but not for the resolutions voting.

One person reported he were unable to get the web part working in any of his three browsers, but was able to participate via audio.