

Business Plan and Convener's Report
ISO/IEC JTC1/SC22/WG21 (C++)

PERIOD COVERED:
June 1996 - May 1997

SUBMITTED BY:
Convener, SC22/WG21
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1. MANAGEMENT SUMMARY

1.1 JTC1/SC22/WG21 STATEMENT OF SCOPE

Development of ISO/IEC Standards related to the programming language C++.

1.2 PROJECTS UNDERWAY

JTC1.22.32 - Programming Language C++

CD 14882 was submitted to SC22 for CD ballot in December 1996. It is hoped that the ballot results will be available before the July 1997 meeting.

2.0 PERIOD REVIEW

2.1 MARKET REQUIREMENTS

WG21 believes that well in excess of one million people are programming in C++, and that this marketplace is very eager for the ISO C++ Standard to be completed.

2.2 ACHIEVEMENTS

The C++ CD was balloted between May 28 and September 28, 1995 (CD 14882, SC22/N1824). Ballot responses included a large number of substantive comments. WG21 spent three meetings (November 1995, March 1996, and July 1996) resolving the comments, and prepared a new working draft for a second CD ballot shortly after the November meeting.

2.3 RESOURCES

The Working Group had its first meeting 18-19 June 1991, and has now met 18 times -- three times per year -- in co-located technical sessions with US committee J16. Eleven countries have been represented at the meetings:

Australia, Canada, Denmark, France, Germany, Ireland, Japan, New Zealand, Sweden, UK, and the USA. (Netherlands, recently added, will become the 12th delegation.)

The Working Group has been monitoring cross-language standards activities.

We are using the WG20 guidelines on extended characters. We have also tried to remain as close to the requirements of the LIA-1 standard as possible, but have not produced an explicit binding document.

WG21 has several liaison appointments:

| Group | Subject | Liaison |
|----------|---|---------------|
| WG11 | Language Independent Datatypes | Keld Simonsen |
| WG14 | C | Tom Plum |
| WG15 | POSIX | Nobuo Saito |
| WG20 | Internationalization | Keld Simonsen |
| SC24/WG6 | Multimedia presentation and interchange | Karl Soop |

3.0 FOCUS NEXT WORK PERIOD

The complete list of former and current target dates is shown below.

| Original date | New date | Event |
|---------------|-------------|---|
| 9/90 | (completed) | USA requested to submit C++ New Work Item Proposal |
| 4/91 | (completed) | Approved C++ NP |
| 6/91 | (completed) | First meeting of WG21 |
| 12/93 | (completed) | Circulate informal draft within SC22 |
| 7/94 | (completed) | Vote to register WD as CD; Mtg #10. |
| 9/94 | (completed) | Complete editorial corrections; provide WD to SC22. |
| 10/94 | (completed) | Begin CD registration ballot. |
| 3/95 | (completed) | Complete CD registration ballot resolutions; Mtg #12. |
| 6/95 | (completed) | Begin CD ballot. |
| 3/96 | (completed) | Complete CD ballot resolution; Mtgs #14-17 |
| 5/96 | (completed) | Begin second CD ballot |
| 3/97 | 11/97 | Complete second CD ballot resolution; Mtg #19, 20 |
| 5/97 | 12/97 | Begin FDIS ballot |
| 12/97 | 3/98 | FDIS ballot results. Send IS to ITTF (with final report). |

3.1 DELIVERABLES

As detailed in the schedule, we anticipate DIS 14882 to be approved during first quarter 1998.

3.2 STRATEGIES

The schedule requires that WG21 complete the editing and review of DIS 14882 during the 5-day November 1997 meeting in Morristown, New Jersey. We have confidence to undertake this, because we accomplished the same process at the 5-day November 1996 meeting in Kona Hawaii.

3.2.1 RISKS

Unanticipated technical objections in the current CD ballot might delay the schedule dates.

3.2.2 OPPORTUNITIES

The electronic distribution processes (email, ftp, and WWW) may allow more efficient post-approval activities (Defect Reports, etc).

3.3 WORK PROGRAM PRIORITIES

Successful balloting of DIS 14882 is our priority during 1997-1998.

4. OTHER ITEMS

This section lists other items that are not part of the "Business Plan" but are appropriate for Convener's Report. (My thanks to Dr. Martin Schoenhacker for the template of the new Convener's Report format.)

4.1 POSSIBLE ACTION REQUESTS AT FORTHCOMING PLENARY

[none as of now]

4.2 APPOINTMENT OF NEW CONVENER

At the last SC22 Plenary in London, September 1996, Thomas Plum (USA) was appointed the new convener of WG21. He follows Sam Harbison (USA) who had served as convener since the 1994 SC22 Plenary.

4.3 PROJECT EDITOR

The following individuals have been appointed project editors and backup project editors, respectively:

JTC1.22.32 - Programming Language C++
Andrew Koenig (Project Editor), Thomas Plum (backup)

4.4 ELECTRONIC DOCUMENT DISTRIBUTION

WG21 has conducted much of its detailed technical discussion using email reflectors provided by courtesy of AT&T and Andrew Koenig (Project Editor of WG21).

In addition to the e-mail reflectors, WG21 has its own ftp and Web sites provided by courtesy of Warwick University and Steve Rumsby.

4.5 RECENT MEETINGS

| No. | Date | Location | Standards Body & Corporate Sponsor |
|-----|-----------------|-------------------|------------------------------------|
| 16 | Jul 7-12, 1996 | Stockholm, Sweden | ITS Ericsson |
| 17 | Nov 10-15, 1996 | Hawaii, USA | ANSI Plum Hall, Inc. |
| 18 | Mar 9-14, 1997 | Nashua, NH, USA | ANSI Digital Equip. Corp. |

4.6 FUTURE MEETINGS

| No. | Date | Location | Standards Body & Corporate Sponsor |
|-----|-----------------|----------------------|------------------------------------|
| 19 | Jul 13-18, 1997 | London, UK | BSI Programming Research |
| 20 | Nov 9-14, 1997 | New Jersey, USA | ANSI AT&T |
| 21 | Mar 8-13, 1998 | Sophia Antipolis, FR | AFNOR Ilog |
| 22 | Jul 12-17, 1998 | Rochester, NY | ANSI Xerox |

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