Committee: ISO/IEC JTC1/SC22/WG11

Place: ACE Associated Computer Experts bv
               Van Eeghenstraat 100
               1071 GL Amsterdam
               The Netherlands.

Date: September 24 - September 27, 1990

Attendees: Mr. Paul Barnetson   IBM, UK
               Mr. Jean Bourgain   AFNOR, France
               Mr. Stephen Cannan   DCE, The Netherlands
               Mr. Ken Edwards   IBM, US
               Mr. Bertrand Leroy   Bull, France
               Mr. Brian Meek   King's College London, UK
               Mr. Dave Robinson   DEC, UK
               Mr. Willem Wakker   ACE, The Netherlands -- acting convenor

Mr. Cannan attended the meeting as rapporteur of the SC21/WG3 SQL group.

Mr. Robinson attended the meeting as rapporteur of the SC21/WG6 RPC group.

1. Agenda (WG11/N187R)

The agenda was amended as follows:

— Point 6.b: remove reference to document WG11/N189, as this document does not exist.

— Point 7.b: add reference to document WG11/N204 (Comments by Barkmeyer on various other documents)

— Point 9.b: correct document numbers to read WG11/N184 and WG11/N185.

— Add point 10.b: WG11/N194 -- Language-Independent Standards.

— Add to point 11.c: WG11/N201 -- Request for Alignment with SC21/WG6.

The agenda was accepted as amended.

2. Minutes of Previous Meeting (WG11/N180)

No changes were made to the minutes; the minutes were approved.

3. Convenor Report

Currently a letter ballot is being held within ANSI to establish whether ANSI will relinquish the WG11 secretariat. It is not expected that problems will arise during this ballot. The letter ballot closes early October 1990 before the the SC22AG meeting. It is likely that during the SC22AG meeting further steps will be taken.

Point 3.b of the agenda can be skipped: there is no SC22 ballot on the appointment of the new convenor (yet).

4. National Activity Reports

4.1 BSI IST/5/11

Two meetings were held since the previous WG11 meeting. Due to other (commercial) obligations, Mr. Paul Barnetson had to stand down as convenor of IST/5/11; the new convenor is Mr. Jon Diamond (Hoskyns Group, London).

4.2 ANSI X3T2

X3T2 has discussed the various documents:

— LCAS: a new document is expected in October 1990. This should have provision for unbounded integers.

— CLID: no new document is expected.

The status of the projects in X3T2 that correspond to the WG11 projects is changed to "I type projects" (International Projects). This means that the ANSI standards for these projects should be identical to the ISO standards.

4.3 AFNOR/CG 97/CN 22/GE 11

The AFNOR report is in document WG11/N202.

5. Work Item 22.14 - Language Bindings Guidelines

The ballot period on document SC22/N754 -- ISO/IEC JTC1 DTR 10182 is closed. The summary of voting and the comments (from Canada, Japan, U.K., the U.S.A. and an individual expert from the U.K.) are in document SC22/N791.
The responses were discussed, and the disposition of the comments are in document WG11/N203. This document will be sent to SC22 for circulation.

6. Work Item 22.16 - Common Procedure Calling Mechanism

The following documents were discussed.

1. WG11 N188 - Common Language-Independent Procedure Calling Mechanism, WD#2.

    A new WD is expected before the next X3T2 meeting (October 1990). Between October 1990 and January 1991, 1 or 2 more drafts will circulate in WG11 and X3T2. The convenor will send these drafts to the SC21/WG6 rapporteur group on RPC for comment.
    During the January 1991 meeting, the final DP text will be established.
    See also document N206 on the alignment of CLIPCM and RPC, and the resulting tight time schedule.

    Note that document WG11/N189 does not exist.

2. WG11 N192 - Comments on N168 - CLIPCM WD#1 (Diamond)

    Responses to comments in this document are in N208.

3. SQL documents WG11/N184 and WG11/N185.
    These documents were accepted as background material.

Milestones for the CLIPCM project:

| 01.04 | 91-02-01 | WD ballot initiated within SC22 |
| 01.05 | 91-05-15 | WD ballot within SC22 closes |

7. Work Item 22.17 - Language-Independent Data Types

Working draft 4 (WG11/N190) is sent to SC22 to circulate for approval as DP. The SC22 document number is SC22/N842.

Concern was raised about the status of the draft that is circulating in SC22: the view was expressed that this document should remain stable until the close of the ballot (January 1991). The convenor will pass this concern on to the project editor.

Working draft 4 was reviewed by discussing the comments from the documents listed below.

During the discussions it was felt that for some issues (technical) input from SC22 member bodies and

from groups outside SC22 might be sought. N190 contains a list of outstanding issues and a list of resolved issues, but next to these, comments on a few other issues are invited as well. These issues are described in WG11/N205 which will be sent to SC22 for circulation.

During the meeting, Mr. Ken Edwards acted as project editor for this project in lieu of Mr. Ed Barkmeyer and took detailed notes on proposed changes.

The following documents were discussed. Where deemed necessary, a comment to the documents was formulated. These comments are in document WG11/N208.

1. WG11 N191 - CLI Datatypes WD.4, Editor's notes.

2. WG11 N196 - CLID, as seen from SQL (Sykes)

3. WG11 N197 - Comments on CLID, WD#3 (Tanner).

4. WG11 N199 - Comments on N196 (Meek)

5. WG11 N200 - Discrepancy in CLID, WD#3 (Pickett)

6. WG11 N204 - Comments on N196 and N197 (Barkmeyer).

Comments regarding the above documents are collected in document N208.

It was decided that the convenor should sent documents N190 and N205 to convenors outside SC22 (SC21/WG3, SC21/WG6 and possibly others) with the request for comment before the next meeting.

Milestones for the CLID project:

01.04	90-09-01	WD ballot initiated within SC22
01.05	91-01-08	WD ballot within SC22 closes

8. Work Item 22.28 - Language Compatible Arithmetic Standard

Document WG11/N167 (LCAS version 2.2a) is sent with a letter ballot to SC22 (document is SC22/N796, ballot in SC22/N797) to approve the document as DP. This ballot closes on September 28th, 1990. Comments will be discussed at the next WG11 meeting.

Letter ballots for the approval of new work items for Language Compatible Mathematical Procedure Standard (SC22/N819) and Language Compatible Complex Arithmetic and Procedure Standard (SC22/N818) are currently being held. These ballots close at November 23rd, 1990. Comments will be discussed at the next WG11 meeting.

Milestones for the LCAS project:

01.04	90-08-01	WD ballot initiated within SC22
01.05	90-11-23	WD ballot within SC22 closes

9. Cross language issues

The following issues were discussed.

1. WG11 N198 - POSIX Language Independent specifications
   It was felt that the document provides a sound basis for the development of language independent POSIX standards. The following remarks were made:

   — On page 5, in the note the correct document number is ISO/IEC JTC1/SC22/N754.

   — On page 17 (line 350): what is intended by "the names of integers"?

   — On page 19 (line 424): aggregates are described. It seems that this defines the same type as the record type in CLID. It looks as if this is a remainder of an older version of the document (compare with paragraph 5.1.5.7, which mentions record types).

In general it would be nice if, for identical types and notions, the TCOS document and the WG11 documents use identical terms.

2. SQL issues (with the SQL rapporteur).
During the discussion the following points were noted:

— It is desirable to have the types from the CLID kernel (see N190, annex A) and the RPC types identical (as much as possible).

— For the computational model, there should be a cross reference between the documents of WG11 and SC21/WG6. The problem is that both documents are in a development stage. The RPC document should only contain restrictions and extensions to the generic definitions of CLIPCM.

— IDN (Interface Definition Notation) is crucial to RPC. The IDN syntax in CLIPCM should be abstract, for RPC a concrete syntax is necessary. In general, a RPC language mapping should be modeled according to CLIPCM.

3. WG11 N194 - Language-Independent Standards (Meek)
This document provides an overview of language independent standards. It was felt that contains interesting background material, both for people inside SC22 and outside SC22.
It was decided that the document will be extended with the following topics (in brackets author of the new text): PDTR 10182 (Barnetson), POSIX (Wakker) and SQL (Sykes?). The updated version should then be circulated. Deadline for contributions: end of November 1990.

10. Action list

1. Meek.
To produce an overview (table) with datatypes from CLID, POSIX, RPC and possibly SQL and indicate where they differ.

11. Future meetings

— First meeting 1991, combined meeting with X3T2.

    Date: January 21st - January 25th, 1991.
    Place: Monterey, California (U.S.A.)
    Host: IBM

— Second meeting 1991.

    Date: September 16th - September 20th, 1991
    Place: Vienna (Austria)
During this same week, other WGs may meet in Vienna as well, and overlapping or combined meetings will be possible. So far, WG2 (Pascal) has expressed interest in a combined meeting of a half day.
This meeting is one week before the SC22 meeting in Vienna.

Seeing the schedule of SC21 meetings and the alignment proposal for CLIPCM and RPC, an extra meeting to discuss comments from member bodies on the CLIPCM DP may be needed, either in conjunction with the 1991 SC21 meeting (SC21/WG6 rapporteur group on RPC meets between May 21th and May 31st in Arles, France) or in London. The decision on this meeting will be taken during the January 1991 meeting of WG11.