



For IEC use only

3D/57/RM

1997-12

**INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ELECTROTECHNIQUE INTERNATIONALE**

**TECHNICAL COMMITTEE NO. 3: DOCUMENTATION AND GRAPHICAL SYMBOLS
SUB-COMMITTEE NO. 3D: DATA SETS FOR LIBRARIES**

Unconfirmed Minutes of the meeting of SC3D on October 23rd, 1997 in New Delhi, India.

Present:

Chairman: Dr. D.E. Radley (United Kingdom)

Secretary: Mr. F.T.A. van Noesel (Netherlands)

Central Office:-----

COUNTRY	DELEGATES	COUNTRY	DELEGATES
Denmark	Mr. Regnar Schulz	Indonesia	<u>Mrs. Ratni S. Pandia</u> Mrs. Cicah Munarsih
Finland	Mr. Tapio Viitanen	Japan	Prof. Mikio Takagi
Germany	<u>Mr. Juergen Bethman</u> Mr. Fritz Reuter	Netherlands	Mr. Arnold Gehner
India	<u>Mr. B. Mathur</u> Mr. R. Chopra Mr. M. Dubey	Poland	Mr. Tomasz Schweitzer

Observers:

India Mr. G. Laxman
 Mr. M. Murthy

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I. Opening of the meeting

The Chairman, Dr. Radley, opened the 7th meeting of SC3D and welcomed the delegates. He thanked the representatives of the Indian national committee for hosting the meeting. He gave a special welcome to the representatives of the new countries India and Poland.

The Chairman announced that a demonstration would take place during the SC3A meeting for which there would be a break in the SC3D meeting so that delegates could attend that demonstration.

He wished everybody a good and constructive meeting.

II. Approval of the (Revised) draft Agenda, document 3D/54/DA-1

The meeting agreed the amended agenda, although point 5 was missing due to a cut and paste problem.

III. Approval of the Unconfirmed Minutes of the meeting of SC3D held in Helsinki on October the 28st, 1996, document 3D/52/RM

There were no comments and/or corrections on accuracy. The Chairman thanked the Secretary for this accuracy, as usual.

There were no actions arising from these minutes that were not covered by the agenda.

IV. To receive a report from the Chairman and Secretary regarding the harmonization of efforts and results with ISO TC184/SC4/WG2 'Part libraries', and possible implications on the work in both committees.

The report prepared for this meeting, document 3D(Delhi/secretariat)02, is attached as annex A to these minutes.

The report was noted.

The Secretary gave some additional information to the report. He reported that the co-operation is very good and has to be continued in the future in order to guarantee consistency of the common EXPRESS model in both the ISO and the IEC standard. The FDIS of IEC 61360-2 however has not yet been distributed.

The Chairman added that ISO 13584-24 is a useful addition to 61360-2. It adds functionality for applications, which functionality however should not be included in the 61360 series because of the application independence of that work. Dictionary- and library work should be kept clearly separate. The date of circulation is yet unknown, but should be in the near future.

Mr. Reuter reported on some problems in producing assemblies with ISO 13584. A German industry consortium will therefore use a subset of ISO 10303 part 212. The Chairman stated that both points were outside the scope of this meeting.

Once more it was stated that IEC 61360-2 will be the published (leading) standard and ISO 13584-42 will refer to this IEC standard. The contents will be included as an informative annex in the ISO standard, so that there is no danger of having two versions of the same work.

V on error skipped

VI. Status overview of the IEC 61360 documents: "Principles and methods for defining standard data element types with associated classification scheme for electric components".

6.1 61360-1: Definitions - Principles and methods

The SC3D Working Group 2 is working on amendments, see point 8 of the agenda.

6.2 61360-2: EXPRESS Dictionary schema

- FDIS to be circulated as document 3D/53/FDIS
- voting results on 3D/53/FDIS

Due to the distribution problems mentioned earlier, the document is not yet in circulation. Voting results are not known (voting ends December 31st, 1997)

6.3 61360-3:

- a & b: Maintenance and Validation procedures, to discuss the process and status in setting up and organizing the Validation Agency(ies) / Validation-groups;
- c: Letter DKE 1997-08-27
- d: email Fritz Reuter, document 3D(Delhi/Reuter)11

a) Maintenance Agency

The Chairman summarised the actions since the last meeting in Helsinki. CODUS Ltd. has been appointed as Maintenance Agency; the result of the vote in the IEC Council being 12 against 1 in favour. The voting report and comments were received under document number 76/AC. These are attached to the minutes as annex B.

The maintenance issue was further discussed under point 7 of the agenda.

b) Validation Agency

The response on the administrative circular 75/AC was very poor. It was probably sent to the wrong people and so probably misunderstood.

It was agreed that, due to the importance of this topic, it should be discussed at the TC3 meeting. A new letter was proposed (as discussed previously in WG2) in which a stronger story, fitting within the whole IEC policy regarding information technology, will be told. In an annex to this letter some concrete examples should be given of what kind of activities the TCs/SCs are expected to perform.

Mr. Reuter indicated that in Germany the letter (75/AC) was considered as for information only, and not for action or for candidates for the validation agency and/or groups to be proposed. It was decided to continue in the proposed direction.

Letter of Mr. Liess: Based on this letter, attached to these minutes as annex C, the responsibilities and tasks of the Validation Agency and the validation groups were discussed. Some misunderstandings arising from IEC 61360-3 were resolved.

The first statement in the letter of Mr. Liess is not correct: the Validation Agency has the responsibility for validating requests NOT the Technical Committees within IEC.

In addition to the second statement the Chairman welcomed heartily such an initiative, which is supported fully by SC3D. Mr Reuter stated that in SC3B this procedure has already been followed for some time. The main effort lies in persuading other Technical Committees to follow the same procedure from the CDV or FDIS stage onwards.

After discussion SC3D concluded that it is not advisable to implement this procedure for existing standards until the relevant revision stage of those standards.

e-mail of Fritz Reuter, document 3D(Delhi/Reuter)11 attached as annex D to the minutes: it was stated that the points raised by Mr. Reuter in this email have been sufficiently discussed. Mr Reuter was satisfied with the answers given.

6.4 61360-4: IEC Reference Collection of standard data element types, component classes and terms.

- voting results on 3D/48/FDIS, document 3D/51/RVD

It was reported that the FDIS had been accepted and that IEC 61360-4 had been published as an International Standard. A floppy disk with the annexes of the standard as PDF files has been bundled with the IS.

VII Report from the Maintenance Agency of the IEC Reference Collection of standard data element types, component classes and terms.

The Chairman reported that the voting in the IEC council was positive for CODUS Ltd. The Committee of Action meeting earlier in the week had requested that the IEC keeps control of the agreement between IEC and CODUS Ltd. This is exactly the way the Maintenance Agency intends to continue

The infrastructure and needed manpower at CODUS Ltd. is now available. There has been a delay, but CODUS is now on speed.

A prototype will proceed quickly now, the start for the service of operation is now scheduled for end of March 1998. A prototype system will be available at the end of this year. Volunteers for prototype sites are requested to report themselves to the Chairman.

A number of input- and output formats will be available, however manual (non-electrical) input will be subject to an additional charge.

Mr. Viitanen ask about a possible link between the IEC data base in Geneva and the 61360-4 data base at CODUS Ltd. There is currently no link between the two separate data bases, but preferably there should be one installed in the future.

VIII To receive a report from:

- SC3D/WG1 - Classification and coding of component packages -, and**
- SC3D/WG2 - Classification of components and definition of technical data elements, document 3D(Delhi/WG 1&2)04**

The Chairman expressed his thanks the Secretary for preparing this report, attached as annex E to these minutes.

Working group 2 is dealing with the revision of 61360-1, including correction of errors. The Chairman asked the opinion of the meeting regarding the direction in which the working group is moving, for instance:

- extending the range of value types, now only text and numeric (by the level construct), two and three dimensional values (for points etc.);
- complex numbers;
- sets of values (numerical and textual values)
- lists

Some of these extensions are already incorporated in the common ISO/IEC EXPRESS information model, other consequences are not yet fully known and are being discussed within the working group 2. Particularly, it is intended that the value type construct, which is now implicit, will become more explicit.

Mr. Reuter supported the need for 2- and 3 dimensional value types. Also the topic of tables needs to be solved, but has in his opinion a much lower priority.

Figures: the Chairman summarised the history regarding figures. Two years ago SC3D decided to recommend the use of CGM, being an International standard. At the previous meeting this policy had been changed because CGM is rarely used and is rather difficult in use. It is now proposed to change the figure definition in IEC 61360 from a pure graphical illustration into a reference to an illustration which may be a file in any format as long as the format is known. The handling would be just like a BLOB as in ISO 13584-24.

The same methodology could be applied to formulae as a reference to a file containing a graphic representation of the formula.

Mr. Reuter did not support the idea of treating a formula as a figure. He preferred a limited, well defined, number of graphical formats.

The Chairman responded by saying the only reason for choosing CGM was because it is an international standard. However looking to the real world, the story is different. CGM is not widely used, whilst de facto standards like PDF, JPEG, GIF etc. are accepted world-wide as graphical formats which are well supported by the currently available web browsers. If anyone wishes to use a graphical format that is not in common use, that person should take care to provide the relevant viewer to the receiving end, which is current practice.

Conclusion: Since the world requires information to be provided in different ways, depending on the representation that is used, screen, paper or other representation forms, IEC 61360 should try to satisfy such requirements.

The topic of handling tolerances, a complex issue, had not yet been discussed in the Working Group 2. The Working Group had decided in its meeting the previous day to meet in mid January 1998 to discuss the outstanding issues on the list of amendments of 61360-1.

IX To discuss the second CD on "Classification and coding of shapes of electric components for placement on printed wiring boards", document 3D/56/CD and received comments

The Chairman echoed the disappointment of the Secretary about the form in which the document had been circulated.

The Central Office had changed the format but had not taken note of the consequences, which had resulted in an increase of about 30 (mainly empty) pages.

For the new members present, the Chairman gave a short overview of the history of this activity. The task for this subject had been given to SC3D at its start in 1989, but manpower problems caused the activities mainly to be restricted to Working Group 2. Working Group 1 had restarted its work last year using the results of the 61360 methodology. Much had been learned from this exercise, which had resulted in a number of proposals to amend 61360-1 (e.g. the concepts about figure, formula, value type, etc.)

On the other hand, this work is very much related to the work of other committees, TC40, TC47D. It should be made clear that SC3D is not seeking to replacing their work, but to provide tools to make information available in a computer sensible form, and it is hoped that other committees will comment on the current draft.

The period for comments on 3D/56/CD ends on December 1st, 1997.

Mr. Reuter proposed that the title of the CD to be changed by omitting the phrase 'printed circuit boards' so that the work would apply to a wider range of devices. As a consequence, the classification may need to be extended.

Decision: SC3D agreed to change the title of 3D/56/CD into "Classification and coding of shapes of electric components".

X Organization of future work.

- Activities of the SC3D Working Groups.

- **Working Group 1 -- "Classification and coding of component packages"**
- **Working Group 2 -- "Classification of components and definition of technical data element types"**

- To discuss the need for the erection of additional working group(s)

Currently there are no plans for additional work within the existing Working Groups.

For the time being there is no foreseen need for new working groups to be established. It is expected that the existing Working Groups can take on the work for the immediate future.

If the Maintenance and Validation Agencies are operating with the appropriate validation groups, the (knowledge) support for other areas of interest will be established automatically.

XI To discuss:

- **the Strategic Policy Statement, document 3D(Delhi/secretariat)06 and**
- **the Programme of work, document 3D/55/PW**

Since the Strategic Policy Statement had become more a policy document, there was no reason for substantial change to the current SPS at this time. Some facts, however, needed to be updated and the Chairman and Secretary stated they would take care of this.

As some of the documents referenced have been superseded, the Program of Work needs to be updated. The Secretary stated that he will ensure that the updated information is forwarded to the Central Office.

XII Liaisons with:

- **other Committees of IEC, ISO, CEN/CENELEC;**
- **report of QP regarding SC 3D and TC 93 activities, document 02/1007/QP, and the report on**
- **voting on the QP, document 02/1032/RV**
- **SI2/ECIX (former Pinnacles)**
- **establishment of a liaison with E-Cals (part of N-Cals)**

Liaison reports from:

- **Frits Reuter on TC93, document 3/516/INF**
- **Wolf-Dieter Kisselmann on CECC/WG-CAD - CIREP, document 3D(Delhi/Kisselmann)08**
- **Frans van Noesel on CENELEC TC217 and SI2/ECIX, document 3D(Delhi/vNoesel)07**

The Chairman referred briefly to the proposal for a merger of the SC3D and TC93 activities. Since the proposal was not supported by a majority, the Chairman was pleased to report that the issue is now dead.

The report of Mr. Reuter was noted, attached as annex F to the minutes. He stated that TC93 is not very willing to work together or to co-ordinate between related activities. The Chairman stated that we have to live with this 'methodology of working'.

Regarding the voting on the CD of EDIF Mr. Reuter stated that in spite of earlier statements, no harmonization effort had taken place between the EDIF and the ISO 10303 AP210 activities. Following the conclusions/proposals of the Frankfurt meeting of March 26th 1996 to the CENELEC BT, the CENELEC members should cast negative votes, and propose to issue the EDIF documents coming from TC93 as technical reports within CENELEC.

The report of Mr. Kisselmann was noted and is attached as annex G to the minutes. Mr. Kisselmann had been unable to get into the country due to visa problems.

The CIREP project is seeking to implement IEC 61360 and has resulted in reports about some difficulties in using the current IEC 61360 series standards and in ISO 13584 part 24. Such implementations of the standard produce a lot of valuable feedback.

The report of Mr. Van Noesel was noted, attached as annex H to these minutes. It was reported that the work within CLC TC 217 is declining more and more. Most of the work item are either completed or have been stopped.

The SI2 ECIX project has started to use 61360-4; the common ISO/IEC EXPRESS information model has been converted into an SGML information model including DTD and TAG library.

In addition to these items Mr Reuter informed the Sub-Committee that SC3B will provide DET definitions for document handling. Co-operation with ISO TC10 is certainly needed in this area. In relation to the European project EDIBATEC Mr. Reuter stated that it would be good to inform that group about the existence of the 61360 series of standards. Mr. Reuter will inform the secretariat about the name and locations to be contacted.

Finally, the Chairman stated that more and more messages are being received from which it has become clear that the IEC 61360 series of standards is increasingly being used in USA and Japanese projects as well as in European projects.

Because of this increasing use of the 61360 standards, SC3D approved the establishment of a formal liaison (of type D) with the Japanese E-CALS project and Prof. Takagi indicated his willingness to act as liaison officer. The Central Office will be requested to undertake the appropriate steps to realize such a liaison between SC3D and E-CALS.

Mr. Reuter offered to act as liaison officer between the new European ECAD project and IEC SC3D.

XIII To prepare a report for the TC3 meeting of October 24, 1997, document3(Delhi/SC3D)6.

It was agreed that the Chairman and the Secretary will produce this report.

XIV Any other business.

No other items for discussion were tabled.

XV Date and place of the next meeting.

Following the discussion between the chairmen of TC3 and SC3D it was suggested that the next meeting would be in approximately 12 months time, in the autumn of 1998. (Secretary: confirmed dates are: November 5th through 13th, 1998 in Charlottelund Denmark) The Danish national committee is considering whether to host the meeting after consultation with TC3 on fixing dates, which will be discussed at the TC3 meeting.

XVI Closure of the meeting.

The Chairman thanked everyone for her/his attendance, participation and contribution to the meeting.

A short meeting had been possible due to the careful preparation of the meeting by the Secretary.

He once more thanked the Indian national committee and its staff for the facilities provided and the secretarial support for the meeting.

He wished the delegates a good journey home.

He therefore closed the meeting at 13.05 hours.

A handwritten signature in black ink, appearing to read 'Frans van Noesel'. The signature is written in a cursive style with a long horizontal stroke extending to the right.

Frans van Noesel
secretary IEC SC3D
December 15th, 1997

Annex A



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3D(Delhi/secretariat)02
Original: English

October 1997

**INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ELECTROTECHNIQUE INTERNATIONALE**

TECHNICAL COMMITTEE NO. 3: DOCUMENTATION AND GRAPHICAL SYMBOLS

SUB-COMMITTEE NO. 3D: DATA SETS FOR LIBRARIES

Report from the ad-hoc Joint Working Group: IEC/SC3D -- ISO/TC184/SC4/WG2

Members of both SC's met each other on a regular base during the ISO/TC184/SC4 (STEP) meetings in March 1997 Chester(UK) and June 1997 San Diego(USA). The October meeting has conflicting dates with this meeting.

During these meetings the last editorial adaptations in the common EXPRESS information model were made.

The issue of the FDIS of IEC 61360-2 has been slipped due to some misunderstandings between Central Office and the secretary. The monolingual version (English) will be circulated now as **document 3D/53/FDIS** in week 9742.

The EXPRESS text within this IEC standard (FDIS) is an exact copy of the text as is presented in the ISO 13584-42 of ISO/TC184/SC4/WG2. In that document the common ISO/IEC EXPRESS information model has been added as an informative annex, while a reference is made to IEC 61360-2.

A handwritten signature in black ink, appearing to read 'Frans van Noesel', written over a diagonal line.

Frans van Noesel
secretary IEC SC3D



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COUNCIL

Voting report on Document 18/AC:
Designation of a Maintenance Agency for standard
element type definitions, classification and terms

1. INTRODUCTION

Document 18/AC proposing CODUS be designated the Maintenance Agency was circulated in February 1997.

National Committees were invited to send their vote until 15 April 1997.

2. RESULT OF VOTING

At the expire of the voting period, FOURTEEN National Committees had replied, as follows:

a) Votes in favour (12 National Committees)

Czech Republic	Norway
Denmark	Slovakia
Finland	Sweden
Greece	Switzerland
Japan	Ukraine
Netherlands	United Kingdom

b) Votes against the proposal (2 National Committees)

Germany (see letter attached)
Italy (see letter attached)

3. CONCLUSION

In accordance with Procedure 2 of Article 23 of the Statutes, ".....the proposal is adopted by virtue of a simple majority of those votes received by the Central Office from Member National Committees."

Therefore, the proposal contained in the document 18/AC is accepted.

Central office Note: The letter from Germany has been answered by the General Secretary.
Copy is attached for information.

cc: Chairman and Secretaries of TC3 and SCs

JP/

Annex C

Retype of letter:

Deutsche Elektrotechnische Kommission
im DIN und VDE (DKE)

DKE Stresemannallee 15 D - 60596 Frankfurt am Main

Monsiuer A.M. Raeburn
Central Office IEC
3, rue de Varembe
P.O. Box 131

CH - 1211 Geneva 20

li/tp/hö

1997-08-27

Dear Mr. Raeburn,

the German National Committee welcomes the activities initiated by 75/AC for the foundation of a validation agency as defined in IEC 61360-3 clause 2.1, however, sees the necessity of giving more concrete instructions for action to the committees.

These must include

- that the product committees are responsible for the validation of the data element types,
- that the data element types shall be listed and published in an annex to the respective product standard,
- and that the secretary of the respective product committee is responsible for questions with respect to the validation, if not specified otherwise by the respective committee.

We suggest that IEC SC 3D prepares a proposal for such a procedure at its next meeting and submits this proposal to the Committee of Action for decision and putting into effect.

Kind regards

German Electrotechnical Commission
of DIN and VDE (DKE)
Managing Director

E. Liess

cc: Mr. Radley (chairman SC 3D)
Mr. Van Noesel (Secretary SC 3D)

Annex D



Not for reproduction
3D(Delhi/Reuter)11
Original: English

01-09-1997

Dear all,

Within last months a German industry group has discussed together SC3D related issues in order to put IEC 61360 into practical industrial use. Some obstacles have been identified which need actions at IEC level.

Independent of the time frame which possible official actions may need via the German national electrotechnical committee. this mail is preliminary and intended to inform you and submitted for discussion at the SC3D as well as TC3 meeting in New Delhi.

This mail will give some more back ground information then officially distributed.

ITEM 1: Action from IEC TC 3 to IEC CA

It is obvious that product committees in IEC as well as ISO should be responsible for the definition of data element types in accordance with the product classes dealt with in each committee. This is due to the fact that the required technical knowhow resides in those committees.

IEC SC3D and IEC TC3 are kindly asked to propose to the IEC CA , in addition to the administrative circular 75/AC, a request to entrust all technical product committees with the following tasks:

- Preparation of an annex for each standard containing data element types describing the product class dealt with in that standard in conformance with IEC 61360, Parts 1 and 4;
- under the application of an electronic template provided by IEC SC3D (example used see ISO/IEC FDIS 11714-3);
- the availability of such annex latest for the CDV in IEC or CD for balloting at ISO; after the acceptance of the FDIS, the annex be forwarded according to the electronic template to the maintenance agency for inclusion in the electronic dictionary of IEC 61360-4.

As the results originate from the related technical committees and being coordinated at a worldwide level, the additional technical validation of such data element types by the validation groups is not required . In this case the maintenance agency verifies the input concerning its editorially completeness.

These tasks are no additional burden of a committee, however specify a systematical and uniform method in order to go for a simple and economic semantical description of properties of a product. In addition the result of that work will allow to be applied for computer applications, e.g. in STEP application protocols. Finally the introduction of such method will reduce the work load of a technical committee.

The installation of such procedure will also reduce the work load of the validation groups to be established according to IEC 61360-3. The work of the validation group should continuously be moved to the technical committees, as there resides the technical knowhow.

As there is an unanimous agreement among the experts of ISO TC 184 and IEC TC3 that the same method should be applied for all product groups, ISO GS is kindly requested that the same procedure and method should be applied by ISO as well.

ITEM 2: Putting into operation of the Maintenance Agency

We have understood that IEC CA has assigned CODUS Ltd as the exclusive service provider since beginning of July 97. According to the contract between CODUS Ltd and the IEC CO, it is up to CODUS LTD. to specify services and fees.

Since the meeting of SC3D in London, industry likes to know the kind of services to be supplied by the Maintenance Agency. In 18/AC there is a list of services etc specified including planned dates of availability of the referred services. The planned dates have not been matched. Until now nothing is known about prices of the planned services nor about the definite date of availability of the planned services.

It is proposed that the planned services and fees are made available as soon as possible. The only we definitely know and welcome is that a data element request can be done via the WWW.

In order to make the dictionary reasonable also to smaller companies, the industry partners propose that the costs could be partly covered by sponsoring of such companies, which use IEC 61360 in the description of their products. Links could lead to the related home pages of such companies.

Further it is proposed to start the call to such electronic WWW data base also via the IEC homepage.

ITEM 3: Status of the proposed addendum to IEC 61360-1.

There is an urgent industrial need to include the description of tables and curves. Several proposals have been made since the London meeting. No result is known yet. We like to have a technical discussion and a solution for that issue now - as some industrial projects need it.

ITEM 4: Proposal for an add-on procedure concerning the validation agency of IEC

IEC TR 61360-3, clause 4, establishes the rules concerning the maintenance and validation agency. In this context no sufficient specification is given how the members of the validation agency and validation groups should work together.

The general understanding of the industry representants is expressed as follows:

-- This proposal intends to supply the missing links for smooth and quick procedures taking into account the required flexibility and communication with the maintenance agency and the feed back from the national/international experts.

A graphical image to show the interactions is attached as a ppt file.

Based on the DET request of a customer of the IEC 61360-4 DET-repository or of a national committee defined in IEC TR 61360-3, the maintenance agency supplies the nominated national members of the validation agency with the DET-request via electronic mail exploder.

According to IEC TR 61360-3 the national committees have to nominate members for the validation agency.

The members of the validation agency should be stable in order to avoid too many changes in the exploder and to assure constant, quick and proper information flow.

According to the area of product classes dealt with, several international email exploders may be installed, each exploder associated with defined product class(es) associated with an IEC/ISO TC/SC/WG.

If a validation group is identified, the screened DET request will be also automatically forwarded to the exploder of that working group, e.g. controlled by keyword.

Each exploder is assigned with technical experts familiar with this product class. These experts should be primarily identical with those persons involved in a corresponding ISO/IEC product committee (see 75/AC).

The experts in such exploders are entrusted with the task to formulate the agreement or disagreement concerning the requested DET-issue.

Per definition, one nominated member of the validation agency/group gives electronically the feed back/votes to the maintenance agency, within a defined time limit of 10 working days. Comments received after that date will not be considered.

Note: This requires a 24 h availability of the maintenance agency server.

The maintenance agency is entrusted to incorporate the requested DET to the released directory of the repository for official public use and deletes the related DET requests in the working directory.

The additional tasks concerning the feed back to the person/organisation having requested the DET are understood as self evident.

The proposed procedure should be established for a testing period of one year. In order to get a broad acceptance and not a too narrow-minded focus on a DET request, it should be possible that the members of the validation group forward the request to a national expert exploder too.

It would be adequate if the applicant for a DET will be included in the technical discussion of its request via email. Experience has shown that sometimes the original intention of the applicant is not kept and has been converted.

TC3 and SC3D are kindly asked to discuss this issue in New Delhi and specify the add-on procedure proposal as a Standing document within IEC TC3.

Fritz H. Reuter
Siemens AG,



INTERNATIONAL ELECTROTECHNICAL COMMISSION COMMISSION ELECTROTECHNIQUE INTERNATIONALE

TECHNICAL COMMITTEE NO. 3: DOCUMENTATION AND GRAPHICAL SYMBOLS

SUB-COMMITTEE NO. 3D: DATA SETS FOR LIBRARIES

Report from Working Group 1 and 2

Report from the convenor of:

SC3D Working Group 1 - Classification and coding of component packages -

SC3D Working Group 2 - Classification of components and definition of technical data elements -.

1 scopes:

WG1: to prepare standards for classification and coding of electric components according to key mechanical characteristics for use on printed wiring boards in design and mechanical handling.

WG2: ** using existing definitions, terminology and practices to set standards for technical data element types that can be used to describe electric components;

** to establish subsets selected from the list of standard data element types suitable for characterizing individual component classes;

** to prepare a standard scheme for classification of components according to function and technology as appropriate.

2 membership:

No changes in the list of memberships since the meeting of SC3D in Helsinki, October 1996.

3 work since Helsinki:

Two meetings were held since the Helsinki meeting, Sheffield April 1997 and Muenchen July 1997. Informal notes of these meetings by the convenor are available on demand.

WG1 and WG2 met together.

A list is produced (see annex A) containing the topics which are discussed to be implemented in the next version of IEC 61360-1. The complexity of the topics however and the limited available humanpower are the reasons that only discussions drafts are available and not yet well defined amendments.

Based on a new working draft, presented by the UK, a restart was made in the field of the classification of packages. Contributions from Germany and the Netherlands were also incorporated.

The work around shapes and packages of components has resulted in the issue of a new Committee draft, **document 3D/56/CD** (successor of document 3D(secretariat)13 "Classification and coding of shapes of electric components for placement on printed wiring boards "). A close relationship with members of IEC SC47D has been established regarding this work. The closing date for comments is 01-12-1997.

4. Planned working group 1&2 meetings:

Wednesday 4th and Thursday 5th of March, 1998 (Eindhoven, the Netherlands)

Wednesday 1st and Thursday 2nd of July, 1998 (Sheffield, United Kingdom)

Thursday 1st and Friday 2nd of October, 1998 (Muenchen, Germany)

Mid January 1998 an extra meeting will be organized, probably in Eindhoven, Netherlands.

5 Quotations from the notes of the SC3D working group 1&2 New Delhi meeting:

a. working group 1:

The convenor expressed his disappointment about the deformatting of the document that has been send in a correct formatted form towards the Central Office. The now distributed document has about 30 pages more than the original one.

As the document has been distributed too late the commenting period ends December 1st. So no official comments were already available. The working group however discussed the comments of the Netherlands which were already (informal available).

This document raises already a number of interesting discussions and follow actions to be carried out. The red line in the discussions is to be consistent and in line with the activities performed within IEC SC47D in producing an updated version of IEC 60191. The comments of the Netherlands have been composed with members of the SC47D working group.

During the planned WG1 meeting of March 1998, the received comments (compilation of comments) will be discussed and relevant decisions will be taken.

The amount and contents of the received comments will determine what kind of document will be issued as successor (CD or CDV).

b. working group 2:

Regarding to the maintenance agency it was stated that CODUS Ltd. has recently decided to set up now the IEC data base as soon as possible. The delay has been caused by the work around the creation of their Webserver system which has to be used by the maintenance agency. Extra humanpower will be available on short notice, so that it is planned that the prototype will be available end March 1998.

The results on the voting regarding the maintenance agency were 12 positive one negative. No formal voting report is still available. Mr. Cordelier stated to take necessary steps to remedy the situation.

The provided output formats by the maintenance agency were discussed., stating the transfer format and not the representation format. Output will primarily be available for down loading in 'Step Physical File' format. Other formats like SGML or pure ASCII tagged format will be available too. Regarding the treatment of special symbols it was stated that the user should generate this in his environment from the short name.

In put can be done bachwise or using the WWW template. Additional charge will apply for non-electronic inputs.

Regarding the validation agency/groups

The reaction on the AC regarding the validation groups was very poor. It was decided to generate an improved version that has to be send out by Mr. Raeburn to indicate the importance of this work and to indicate that this is the direction the IEC wants to move into. Essential points in those letter should be:

- the industry trend that more and more computer sensible information is wanted;
- that it is the IEC policy to support those industry trends;
- an IEC TC has a responsibility for an industry domain to ensure that new technologies are exploited.
- the IEC secretariat should encourage the TCs and SCs to move in that direction;
- the methodology of IEC 61360 and SC3Ds work is providing tools for supporting these developments;
- the IEC secretariat should request the TCs fully to corporate in this area.

In an annex there will be indicated, by means of examples, what things we require and about the support we expect from the TCs and SCs.

Regarding the e-mail of Fritz Reuter

From the discussion it was clear that most of the raised issues will be solved if the maintenance agency is in operation.

Regarding the Amendments / extensions / adaptations of IEC 61360-1

Based on the experiences within the European CIREP project it was stated that the way DETs are used is changing. The WG however stated very clearly that IEC 61360 should remain application independent. Also local application attributes should not be added.

It was decided to skip the points 2 and 8 due to time and complexity problems. Regarding point 2 Donald will prepare some inputs for this.

Some topics will be discussed together like the 'value type' and the 'level type' issue. Priority was given to points 15, 7, 4, 5 and 6 of the enhancements list:

Based on earlier discussions we see that SC3D does not restrict themselves to component classes anymore. As we are currently already dealing with several kind of classes it was accepted to leave in the specification 'component class' the word 'component' out. The whole standard has carefully to be checked on this consequence.

What is the influence of this on the common ISO/IEC EXPRESS information model ?

It was accepted to add an identifier to a term definition according to IEC 61360-1. Check the consistency in clause 3.4.8.

Is the 'star' still allowed for hierarchy indications ??

A growing need is expressed to include figures in DETs etc. It was decided to accept this change however the consequences that have still to be studied. So clause 3.3.4. has to be updated.

The reference to an illustration is normally in the form of a reference to a file containing a graphical representation in computer sensible form. Use should be made, where possible, of the external file handling procedure of ISO 13584 -24

6 new activities:

Currently no new activities will be undertaken other than that are already indicated in this report. The lack of manpower still remains the largest problem.



Frans van Noesel
Convenor SC3D / WG 1&2
October 22nd, 1997

List of requested enhancements for IEC 61360-1 (1997-09-25)

1. Source references for a value domain besides the existing reference to one single value from the value domain;
2. define the meta-meta data conform the 61360-1 methodology.
3. extension of value types;
- two- and three dimensional values;
4. function of figures (new: essential for understanding, geometry's, packages etc.);
5. referencing to figures by means of for instance the ' BLOB' mechanism.;
6. formula issue; how to handle cq. how to exchange ?
7. assigning a identifier (just as DETs and Component classes) to terms, while converting the current identifier (name) into the preferred name of that identifier (term);
8. handling of tolerances other than by absolute values as is present standardised in 61360-1. Other possibilities should be allowed.
9. Handling of subscripts (when having large amounts of related DET definitions);
10. Associations and relations among DETs (e.g. conditions, percentages, DBs..)
11. Use of icons
12. Use of the unit of measure
13. Handling of tables (document Fritz Reuter 06-05-97);
14. Handling of curves (document Fritz Reuter 06-05-97);
15. Correction of errors found in 61360-1 Ed.1



For IEC use only

3/516/INF

INFORMATION (INF)
1997-09

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO. 3: DOCUMENTATION AND GRAPHICAL SYMBOLS

Liaison Report from IEC TC 93 to IEC TC3

1 Meetings

IEC TC 93 has had its last meeting in Copenhagen, DK. The next meeting will be in Yokohama, JP. For lack of resources and overlapping with other meetings, no meeting participation was possible. The Liaison officer has followed the electronic mail activities, discussions with IEC TC93 members and the related CEN activities.

2 Items of interest to IEC TC 3

With respect to items of interest in IEC TC3 and its subcommittees no real progress has been made. The related issues are shown below.

2.1.1 Interconnectivity model in IEC TC93

During the setting up of this project it was proposed that a single common interconnectivity model was set up including all types of interconnectivity, i.e. not limited to the kind of networks appearing in the electronic industry.

That proposal has not been taken into account, therefore this project in IEC TC93 is of less value as it lacks the will to incorporate the plants and systems designer requirements. Here again evolves the issue of co-ordination and co-operation with STEP AP 210 as well as AP 212.

2.1.2 IEC 93/73/NP Library issues

The recent proposal of IEC TC93 is met with great interest. As the NP includes a wide variety of libraries for the different purposes, it has been proposed by ISO TC184/SC4 and TC3 members to set up a Task Force, before setting up a WG, defining a kind of roadmap how to tackle this wide field. As it covers also software libraries, the Task Force should also include IEC TC 65, IEC SC3B, etc. It is proposed to discuss this issue in the next Sector Board III meeting at the end of September 1997 in Geneva.

2.1.3 Roadmap

IEC TC93 has released this year a first edition of a roadmap. This roadmap has been realised in close circles outside of the committee and brought to notice without having in practice a possibility to influence that roadmap.

The roadmap is focusing on issues in the electronic area, not including the electric area dealing with the construction of plants and systems.

Therefore all related interdisciplinary issues concerning the design, construction, installation and operation of a plant are not covered by IEC TC 93.

2.1.4 ISO High-Level Steering Group on CALS - Report to Technical Management Board

This document provides valuable inputs and strategies with technical recommendations to the ISO Technical Management Board. IEC TC3 as well as ISO TC 184/SC4 are referred to by this document and are considered as a mayor player in the proposed strategy. Several recommendations presented in that report are directly concerning the operation of IEC TC3. A thorough look and discussion about that document and its consequences with respect to the Strategic Policy Statement is therefore recommended.

2.2 Problems

2.2.1 Distribution of documents

It seems to be a problem that committees, being in liaison with IEC TC 93, do not generally receive automatically the documents via the CO. This problem is occurring especially if committees in ISO are concerned.

2.2.2 Co-operation with ISO TC184/SC4 JWG 9

The former US Convenor of ISO TC 184/SC4 JWG9, Mr. Shaun Devlin, an EDIF expert, has spent great efforts getting better and more active co-operation with the EIA in the US and with IEC TC93. These efforts have been done in order to harmonise the overlapping issues within STEP AP 210 and the EDIF 300 as well as the EDIF 400 issues.

Results have been negative. Last trials to stop the Fast Track procedure from IEC TC93 with respect to EDIF 400 (IEC 02/1052/QP), in order to give IEC TC93 and the STEP AP 210 team a little more time for harmonisation, have failed.

Mr. Devlin was proposed in 1996 to serve as liaison officer between ISO TC184/SC4 and IEC TC93. Whereas this was confirmed by ISO TC184/SC4, no confirmation has been given from IEC TC93.

Note from the liaison officer - The negative results are not caused due to technical reasons or at the working level; they are primarily caused by

- *Lack of project management and co-ordination within IEC and ISO;*
- *Political and organisational issues;*
- *Lack of will of co-operation and co-ordination at the higher management level;*
- *Lack of technical and organisational background information within national committees when deciding about related issues which may partly lead to inconsistent decisions on the international level;*
- *Lack of funding for harmonisation issues inside and outside the electronic area.*

The actual procedures make it today still too easy to vote Yes instead of No.

Most of the projects initiated are like patches without interrelation.

2.2.3 In own affairs

- The Liaison officer has been nominated last year as liaison officer from IEC T3 to IEC TC 93. From the side of IEC TC 93 no confirmation has been received.

- As most of the same issues occur within the report from ISO TC184/SC4, it is proposed that the liaison task is met in future by a single report covering both IEC TC93 and ISO TC184/SC4 issues, being of interest to IEC TC3.

The liaison officer has overtaken last year upon request the above liaison tasks, however he is not in the position to cover all requirements established in the procedures for liaison officers according to 3/503/INF. Due to the fact that it is more or less impossible to travel to meetings of IEC TC 93, ISO TC 184/SC4, IEC TC65, IEC TC 3 and related other meetings due to projects, the liaison officer kindly asks that someone else, being also in IEC TC3 represented, should take one of these tasks.

*F. Reuter
Liaison officer to IEC TC93*



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October 1997

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO. 3: DOCUMENTATION AND GRAPHICAL SYMBOLS

SUB-COMMITTEE NO.3D: DATA SETS FOR LIBRARIES

Report of the liaison with CECC WG-CAD/CIREP Esprit Project

Meetings WG CAD / CIREP:

Main meetings held during the reporting period are the following:

- CIREP third workshop - PARIS - January 14th and 15th 1997
- CIREP MODELLING WORKSHOP - HAGEN - January 30/31st 1997
- CIREP review by the EC - BRUSSELS - February 19th 1997
- CIREP CIHS meeting - PARIS - March 27th 1997
- CIREP critical review - TOLEDO - April 23rd 1997
- CIREP invited session - TOLEDO - April 24th 1997
- CIREP/ECIX meeting - TOLEDO - April 24th 1997
- CIREP/ECIX meeting - EINDHOVEN - May 27th 1997
- CIREP CDIL meeting - EINDHOVEN - May 29th 1997
- CIREP/E-CALS meeting - Marseille - July 9th and 10th 1997
- CIREP/Exploitation meeting - Sheffield - August 6th 1997
- CIREP/ Board meeting - Munich - October 14th and 15th 1997

Next meeting

CIREP review by the EC - BRUSSELS - December 9th and 10th 1997

CIR / CIREP overview

ESPRIT project

Duration : 30 months

Started 1st of July, 1996

5 Mecu project - 30 months

CDIL = Class Data Item List

CIHS = Component Information Handling System

ECIX = Electronic Component Information eXchange

E-CALS = Electronic Equipment and Components CALS

The CIREP partners

- Technology providers : CODUS, Eurlis, Spring, FU. Hagen
- Component users : Aérospatiale, Thomson-CSF
- Component manufacturers : AVX, Philips, Siemens
- Users Group : ADEPA
- Coordination : Thomson-CSF

CIREP objectives

To produce methodologies for creating Component descriptions and building libraries of Component Information where the user of components can get the component information he needs for construction, production, maintenance and recycling his products, and the producer can deliver his datas.

To build a complete information system for the electronic business of standardised libraries of component information. Included are the values of data element types, as well as thermal or functional models with the corresponding data and footprints a.s.o.

To address all types of components with a focus on electromechanical components

Strong involvement in component information related (CENELEC/TC/CECC, IEC & ISO)

To establish an enabling environment (methods, information infrastructure and promotional actions)

Distribution and exploitation of standardised component information representations

Starting from the definition of component classes down to the incorporation of the representation of a single component of this class into the industrial component database of a user company

Based on standards ISO 13584, P-LIB and IEC 61360 eventually providing inputs for improvements of the standards

Status

WP1 activities are nearly completed, all other **WP** activities are on-going. No major technical deviation from the technical annex.

Contacts established with related projects: ECIX (CFI), E-CALS (EIAJ) - Japan.

The CIREP User Group has been set up.

The CIREP User Group currently consists of:

- At European level CECC Usergroups/Marketing

- England

Stack International

FEI : Trade Association for the Electronics Industry

KWEILL CGS

- France

ESOCE : European Society of concurrent Engineering

UTE.FIEE standard association

SNESE : Trade Association of French Electronic sub-contractors

Comite RICHELIEU : Trade association of French High tech SMEs

Texas instrument

Matra Data Vision

- Germany

DKE standard association

ZVEI

	SIEMENS
	AMP
- Ireland	NETC : National Electronic Technology Centre - FORBAIT
- Italy	SGS THOMSON
- Norway	POSC
- Poland	Technical University of LODZ
- Portugal	INESC : Technical Centre
- Spain	ROBOTIKER Technical Centre IKERLAN Technical Centre
- Sweden	AXIOM
-The Netherlands	PDI Standard association SIGNAAL

Main developments

At component information description level

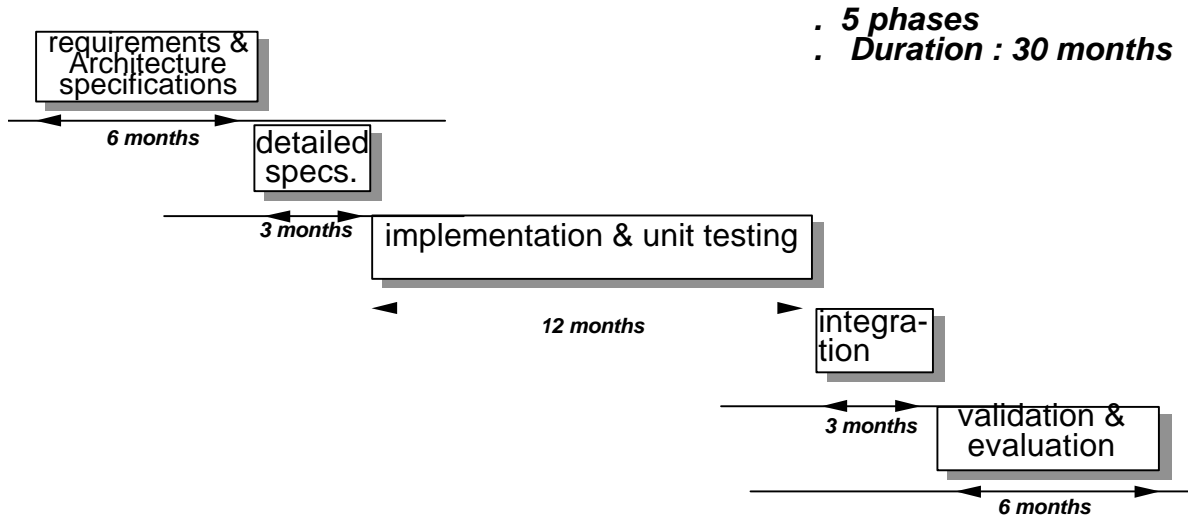
- Development of a methodology to generate Class Data Item Lists (CDIL)
- Implementation of tools to support the capture of CDILs in electronic form
- Implementation of tools for the generation of the corresponding EXPRESS data models

At component information level

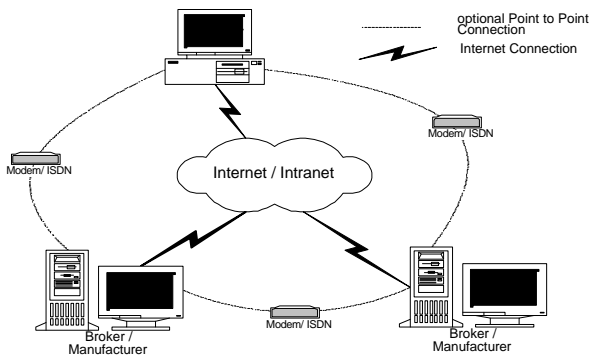
- Development of tools for capturing component information from component suppliers and checking their compliance based on the EXPRESS data model of the related component class
- Adaptation of an existing database in order to support data models for building up a Component Information Representation (CIR) source database - CODUS database compliant
- Development of network services for electronic trading of component information based on CITED functional IPR model
- Adaptation of an existing Component Information Handling (CIHS) to accept CECC-originated EXPRESS data models

Wolf-Dieter Kisselmann
New Delhi, Oct 23th, 1997

Phases of the project

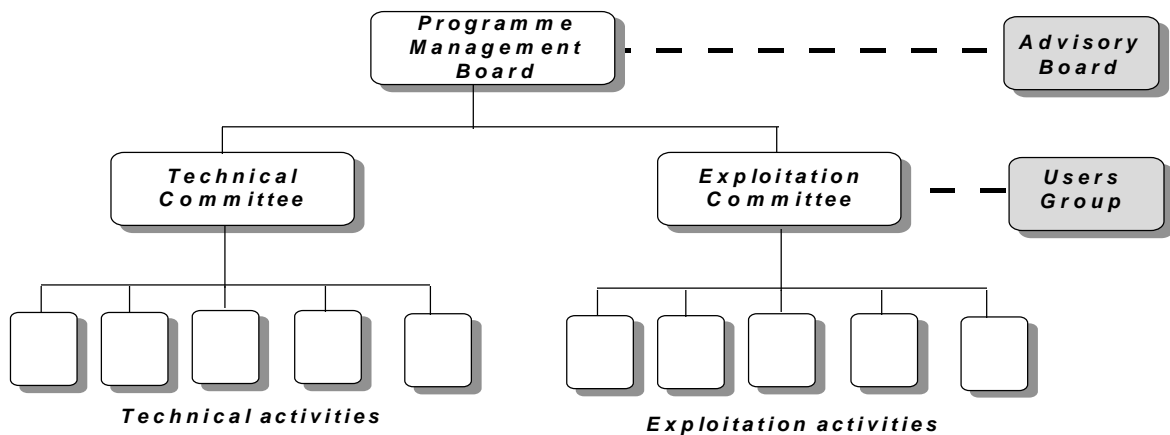


Main technology features



- ☞ ISO/ Physical file format STEP & SDAI for and sharing of information (EXPRESS data schema)
- ☞ electronic distribution and access through Internet
- ☞ IPR & fees redistribution management

Project team organisation





INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO. 3: DOCUMENTATION AND GRAPHICAL SYMBOLS

SUB-COMMITTEE NO.3D: DATA SETS FOR LIBRARIES

Report of the liaison with Cenelec TC 217 and SI2-ECIX

1. Cenelec TC 217

As most of the activities/projects have been finished in the last year the meeting frequency has been reduced.

List of open activities:

1.1 WG 1: Information Modelling

All projects are either finished, stopped or continued at by other (IEC) committee.

1.2 WG 2: Electronic System Specification Languages

2.7 VHDL intermediate format, work in progress

2.11 System level specification; program has been started

2.11.1 Analogue representation of mechanical subsystems.

2.11.2 Object oriented extensions.

2.14 VHDL-Guidelines for Simulation, in circulation for balloting

2.15 Level-0 VHDL syntheses syntax and semantics

2.16 VHDL-modelling rules for performance improvement, new target date 03-1998

2.18 Synchronous VHDL, problems with human power and funding. After circulation within the working group the issuing as technical report is considered.

2.19 Harmonization of VHDL-utility packages; target date set to 03-1998

1.3 WG 3: Interchange Formats

All projects are either finished, stopped or continued at by other (IEC) committee.

1.4 WG 4: EDA Frameworks

All projects are either finished, stopped or continued at by other (IEC) committee.

1.5 WG 5: Technology Assessment

No current activities, no planned activities.

1.6 WG 6: "Testing"

No current activities, no planned activities.

1.7 Relevant topics in relation to SC3D

The for SC3D related topic was covered under WG 4 as item 4.4 Electronic Data Book Interchange Format (CLC Project: 5911). The documents are under way to be published; parts A and D as Technical Report; parts B and C as European Pre-Standard. Copyright and IPR issues have still to be solved between Cenelec and SI2.

2. SI2 - ECIX

scope: ECIX:

Electronic Component Information Exchange (ECIX) enables a seamless world wide flow of usable information for everything on, in and about components that are found on PCBs, including the PCB itself. This information is both machine and human sensible. ECIX processes, tools and standards exist to achieve this information transfer in a timely manner. The information is platform, tool, time and vendor independent.

The ECIX architecture and standards are extensible, unambiguous, well documented and qualified training is available.

Within the ECIX project the PCIS (Pinnacles Information Dictionary Standard) and the CIDS (Component Information Dictionary Standard) activities are defined.

For the underlying dictionary, to be provided by CIDS, the IEC 61360 model has been accepted as starting point. The ISO/IEC EXPRESS model has been converted into an SGML information model, including TAG library and DTD.

The contents will be initially the IEC 61360-4 dictionary later to be supplied with the JEDEC dictionary.

New versions of PCIS (1.3 and later 2.0) are foreseen for 1998.

A handwritten signature in black ink, appearing to read 'Frans van Noesel', with a long horizontal line extending from the end of the signature.

Frans van Noesel
October 10th, 1997