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2001-11

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Unconfirmed Minutes of the meeting of SC 3D held in Oslo, Norway on October 3rd, 2001

Present:

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

Secretary: Mr. P.G. van Reekum (Netherlands)

Central Office: Mr. J.R. Sheldon

COUNTRY	DELEGATES	COUNTRY	DELEGATES
Finland	Mr. Tapio Viitanen	Netherlands	Mr. Frans van Noesel
Germany	Mr. Wolf-Dieter Kisselmann Mr. Fritz Reuter	Norway	Mr. Eirik Selvik
Japan	Mr. Sumio Araki Mr. Mitsuru Takahashi Mr. Hiromasa Yamaoka		

Observers:

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I. Opening of the meeting

On behalf of the National Committee of Norway Mr. Selvik welcomed the delegates in Norway and wish them a fruitful meeting. The Chairman, Dr. Radley, opened the 11th meeting of SC3D, and thanked the Norwegian National Committee for hosting the meeting. He also welcomed Mr. Sheldon as the successor of Mr. Cordelier representing the Central Office. He thanked Mr. Gehner who will retire soon and Mr. Kisselmann who has his last meeting before his retirement for their active contribution in the activities of SC3D.

II. Approval of the (Revised) draft Agenda, document 3D/83/DA

The draft agenda was approved without modification.

III. To note the minutes of the meeting of SC3D held in Stockholm, September 20th, 2000, document 3D/77/RM

As no comments were received, the minutes were noted as approved.

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

IV. Status overview of the IEC 61360 documents: "Standard data element types with associated classification scheme for electric components".

4.1 IEC 61360-1:

IEC 61360-1, the final proposal for edition 2 of IEC 61360-1 has been send to the Central Office for circulation as FDIS.

Amendment 1 to IEC 61360-1 Ed.2: The proposal for an amendment to IEC61360-1 Ed.2 has been circulated as document 3D/82/CD. The period for comments closes on October 12th, 2001.

4.2 IEC 61360-2: the final proposal for edition 2 of IEC 61360-2 has been send to the Central Office for circulation as FDIS.

4.3 IEC 61360-3:

No new documents were issued since the last SC3D meeting. The topic of maintenance and validation was, however, discussed intensively during the meeting. Interim solutions were defined and the possible ways forward were discussed. An update to Part3 will be needed when the online database at the Central Office is established.

4.4 IEC 61360-4:

Amendment1/f1: This proposal contains the data element types for the geometrical characteristics of the shapes of components and has been circulated as document 3D/85/CD. The period for comments closes on November 16th, 2001.

Amendment1/f2: This proposal contains the data element types for semiconductor die and has been circulated as document 3D/86/CD.

The period for comments closes on November 16th, 2001.

New proposals for extension of the IEC reference collection are foreseen in the near future such as the data element types resulting from the JEITA (Ecals) dictionary of Japan and the requests from Germany for data element types for relays and connectors.

It is now foreseen that proposals for new data element types and classes will be received on regular basis. It is proposed therefore that amendments to Part 4 will be issued at six-month intervals with a new edition after every second amendment until the maintenance procedures for the database are fully established and operational.

4.5 IEC 61360-5:

A new draft is in preparation and will be sent to the Central Office for circulation as a second CD for comments.

V To receive a report from SC3D/WG2 - Classification of components and definition of technical data element types,

The Chairman thanked the secretary for preparing this report, attached as annex A to these minutes.

In the past year, IEC Council has taken the decision that the on-line database based on IEC 61360-4 should be made available free of charge to end users. However, no progress has been made towards its implementation, though pressure is growing from potential users.

A proposal has been made that a CD-ROM should be produced alongside the on-line database which would contain not only the search and browse facilities of the on-line service but also the ability to generate computer-sensible output and to generate requests for new classes and DET definitions. It is proposed that the CD-ROM could be sold, under suitable licence conditions to generate income for the IEC Central Office and a proposal has been submitted to the Central Office including a suggested business model.

Contents envisaged for the CD-ROM include:

- the IEC 61360-4 reference collection;
- all the requests for new classes and data element types;
- the text of IEC 61360-1, 2 and 5 in PDF format;
- templates for data entry;
- a user guide and support documentation;
- sample files;
- tools for downloading all or parts of the dictionary in several formats such as SPF, SGML, XML and simple tagged format.

A new template for the request/update of data element types was received from Mr. Araki. As a test the tool will be used for the German request for new data element types for relays.

A list of projects currently being undertaken by SC3D/WG2 has been prepared. It should be noted that, in addition to the work on standards recorded in the database at CO, there are also other activities related to the on-line database, CD-ROM, templates for new requests etc.

VI Liaisons with other committees of IEC, ISO, CEN/CENELEC

6.1 Report IEC/TC93 Mr. Viitanen, document 3/578/INF.

The report of Mr. Viitanen was noted and is attached as Annex B to the minutes.

Concern was expressed with respect to the library activities in TC93/WG6. There is no communication with our committee and it appears that there also no communication with the PLIB group of ISO TC184/SC4/WG2. It was agreed that the Chairman get in contact with the Chairman of TC 93.

6.2 Report CENELEC TC217 MR. van Reekum, document 3D(Oslo/vanReekum)04

The report of Mr. van Reekum was noted and is attached to the minutes as Annex C.

6.3 Report ISO TC184/SC4/WG2, Mr. van Noesel, document 3D(Oslo/vanNoesel)02.

The report of Mr. van Noesel was noted and is attached to the minutes as Annex D.

The consequences to the common EXPRESS information model caused by the update of IEC 61360-1 have been discussed and solutions have been agreed.

Specific by IEC required extensions to the common EXPRESS model are grouped together into the new part 5 of the 61360 series, while specific by ISO required extensions will be concentrated

in part 25 of the ISO 13584 series of standards.

The technical help offered by Prof. Pierra and his technical crew in drafting the first CD of IEC 61360-5 was very much appreciated.

6.4 Liaison with IEC/TC47/PT

It was agreed that a liaison be established with the new TC47/PT concerned with standards for die devices since the data dictionary related to the proposed new IEC 62258 is to be included in the first amendment to IEC 61360-4, and Dr. Radley agreed to act as liaison officer. It is believed that this could form a prototype for co-operation between SC3D and other TCs.

VII Reports from:

7.1 MERCI project, Mr. Kisselmann, document 3D(Oslo/Kisselmann)07

The report of Mr. Kisselmann was noted and is attached to the minutes as annex E.

7.2 ECALS/JEITA project

No report available. Mr. Takahashi has given an overview of the status of the ECALS, JEMA and JEMIMA projects. The results of the JEMA and JEMIMA projects will be included into the JEITA dictionary.

7.3 Dictionary workshop held in San Francisco

A two-day dictionary workshop was held in San Francisco in June 2001 in co-operation with ISO TC184/SC4/WG2 and TC93/WG6/NIST. More than 40 companies from all over the world has attended the workshop. SC 3D was represented by Dr. Radley, Mr. van Noesel, Mr. Kisselmann, Mr. Tanaka, Mr. Araki and Mr. Takahashi. A report of this meeting is available as 3/579/INF.

Among the conclusions from the workshop was the agreement that the IEC methodology, whose associated information model is reflected in the common ISO/IEC EXPRESS information model, should be used not just in the technical domain but, where possible, also in the business/commercial domain.

It was generally felt that the workshop was extremely useful and further similar events should be convened in the near future.

VIII. Organization of future work

8.1 Report of the progress in the Maintenance and Validation process

See item 5, SC3D working group 2 report.

8.2 To discuss the need for the erection of additional 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 Group can take on the work for the immediate future.

8.3 To discuss the co-operation and harmonisation with other dictionary activities

see item 7.3, Report dictionary workshop

IX To discuss the Strategic Policy Statement, document 3D(Oslo/secretariat)06

The strategic policy statement has to be modified and extended in several places. The delegates agreed that the chairman and secretary would take care of this.

9.1 To discuss the Programme of work, document 3D/87/PW

As some of the documents referenced have been superseded, the Programme of Works has to be updated. The secretary will send the updated information to the Central Office.

X To prepare a report for the TC3 meeting of October 4th, 2001, document 3(Stockholm/SC3D)07.

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

XI Any other business.

No other issues were raised.

XII Date and place of the next meeting.

The next SC3D meeting in 2001 will be held in conjunction with the IEC/TC3 meeting. Date and place has to be confirmed in the IEC/TC3 meeting.

XIII Closure of the meeting

The chairman thanked the delegates for their attendance and contribution to this meeting. He thanked the Norwegian National Committee for hosting the meeting. He wished the delegates a safe journey home and closed the meeting.



Peter van Reekum
secretary IEC SC3D



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Annex A

3D(Oslo/WG)05
September 2001

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO. 3: DOCUMENTATION AND GRAPHICAL SYMBOLS

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

Report from Working Group 2

Report from the convenor of SC3D Working Group 2: Classification and definition of technical data elements

1. scope

Using existing definitions, terminology and practices to set standards for preparing technical data element types that can be used :

- to prepare a standard schema for classification according to function and technology as appropriate
- to define data element types that describe the properties of electric components and systems
- to establish subsets selected from the list of data element types suitable for characterizing individual classes.

2. membership:

No changes in the membership since the meeting of SC3D in Stockholm, October 2000. The active participation of Japan was welcomed.

3. Work since Stockholm:

Two meetings have been held since the Stockholm meeting, in Eindhoven February 2001 and London May 2001. From this meeting informal notes from the convenor are available on request.

IEC 61360-1:

IEC 61360-1, the final proposal for edition 2 of IEC 61360-1 has been send to the Central Office for circulation as FDIS.

Amendment 1 to IEC 61360-1 Ed.2: The proposal for an amendment to IEC61360-1 Ed.2 has been circulated as document 3D/82/CD. The period for comments closes on 12 October 2001.

IEC 61360-2: the final proposal for edition 2of IEC 61360-2 has been send to the Central Office for circulation as FDIS

IEC 61360-3:

No new documents were issued since the last SC3D meeting. The topic of maintenance and validation was, however, discussed intensively during the meeting. Interim solutions were defined and the possible ways forward were discussed.

IEC 61360-4:

Amendment1/f1: This proposal contains the data element types for the geometrical characteristics of the shapes of components and has been circulated as document 3D/85/CD. The period for comments closes on 16 November 2001.

Amendment1/f2: This proposal contains the data element types for semiconductor die and has been circulated as document 3D/86/CD. The period for comments closes on 16 November 2001.

New proposals for extension of the IEC reference collection are foreseen in the near future such as the data element types resulting from the JEITA (Ecals) dictionary of Japan and the requests from

Germany for data element types for Relays and Connectors.

IEC 61360-5:

A new draft is in preparation and will be sent to the Central Office for circulation as a second CD for comments.

4. Quotation from the meetings of the SC3D working group 2:

No progress in the M&V process is reported by the Central Office in the last year. The database of Dr. Radley contains all classes and data element types of IEC 61360-4. He also has included in the database the data element types and classes of the JEITA dictionary, the data element types and classes for the packages, the data element types for semiconductor die and the requests from Germany for Relays and Connectors. Since the online data base of the Central Office is not yet available Dr. Radley has as interim solution produced a CD-rom which contains:

- the IEC 61360-4 reference collection
- all the requests for new classes and data element types
- the text of IEC 61360-1, 2 and 5 in PDF format
- templates for data entry
- a user guide and support documentation
- sample files
- tools for downloading all or parts of the dictionary in several formats such as SPF, SGML, XML and simple tagged format

A new template for the request/update of data element types was received from Mr. Araki. As a test the tool shall be used for the German request for data element types for relays

A dictionary workshop has been held in San Francisco June 2001. More than 40 companies from all over the world has attended the workshop. SC 3D was represented by Donald Radley, Frans van Noesel, Dieter Kisselmann, Fumio Tanaka, Sumio Araki and Mitsuru Tahahashi. Donald Radley will give a report of this meeting.

Establishment of a formal liaison with the project team TC47/PT. The objective of this project team is to develop new IEC standards for Die devices based on the European specification IS 59008 part 1 up to 6. Especially part 6 is of interest for SC3D which is in the field of information exchange and associated data dictionary Therefore there is a need for a formal liaison with TC47/PT. The convenor will check what the IEC rules are for such a formal liaison. This item will also be placed on the agenda of the SC3D meeting.

A project list has been prepared to show the several projects we are working on in the working group (see Annex A). This list can also be used for the preparation of the report to he Committee of Action.

5. Planned working group meetings

Next working group meetings are scheduled:

- | | |
|----------------|--|
| November, 2001 | Eindhoven, The Netherlands (to be discussed) |
| February, 2001 | Muenchen, Germany (to be discussed) |



Peter van Reekum
Convenor SC3D / WG 2
September 15th, 2001

Annex B



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3/578/INF
INFORMATION
2001-08-17

INTERNATIONAL ELECTROTECHNICAL COMMISSION

Technical Committee No. 3 Information structures, documentation and graphical symbols

Report on the liaison to TC 93 *Design automation* to the meeting in Oslo 2001

1 Meetings and other activities

TC 93 had its last meeting in Frankfurt Germany October 2000 just after the TC 3 group meetings in Stockholm. Next TC 93 meeting will be arranged in Firenze October 2001.

2 Strategical direction of the activities

During the interval between meetings no changes have been proposed into the strategy of the committee. As earlier part of TC 93 policy is to make use of the work done by the feeder organizations.

3 Published standards of interest to the work in TC3 with SCs

No new published standards of interest to the work in TC3 with SCs since the last report.

4 Documents under work of interest to TC3 with SCs

About the draft IEC 62016 (93/125/CDV) *Design automation reference model - Core model of the electronics domain*, the FDIS is under preparation by WG 1 and WG 3. It is however late from its timetable. The project is partly related with EDIF and STEP AP210.

5 New work items and planned work of interest to TC3 with SCs

TC 93 has three working groups related with TC 3 area work namely: WG 1: Electronical data harmonisation (Approaches, methodologies and technologies), WG 3: Reference model for electronic design interchange format and WG 6: Library of Reusable Parts for Electrotechnical Products.

- WG3 has discussed about an extension to EDIF based on ECCE-project.
- Action plan of WG6 includes a level zero project for a future TR IEC 62014-2: Library standard architecture. WG 6 is also working together with several other projects like EIAJ/ECALS, MERCI, RosettaNet.

6 Other matters of interest

TC 93 has also been represented in ACET and ACET/Area 4 meetings as well as in discussions about e-commerce e.g. in ISO - IEC – ITU - UN/ECE Memorandum of Understanding Electronic Business Management Group. In San Francisco on 14 and 15 last June has been held a workshop on dictionaries jointly sponsored by ISO TC184/SC4, IEC TC3/SC3D and IEC TC93/WG6.

Tapio Viitanen
Liaison officer to TC93

Annex C



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3D(Oslo/vReekum)04
September 2001

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

1. CLC TC217

A meeting was held In October 2000. Items discussed during the meeting were related to VHDL issues which are outside the scope of IEC/TC3.

Items discussed were:

- extensions to VHDL '93 for analogue and analogue-digital mixed mode simulations;
- language requirements for high level synthesis;
- VHDL intermediate format;
- applications of VHDL 1076.1 to mixed-physical domains;
- object oriented extensions;
- VHDL modeling rules for simulation performance improvement;
- synchronous VHDL;

No next meeting was planned.

A handwritten signature in black ink, appearing to read 'Peter van Reekum', written in a cursive style.

Peter van Reekum

September , 2001

Annex D



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3D(Oslo/vNoesel)02
September 2001

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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 Charleston (October 2000), Funchal (February 2001) and San Francisco (June 2001). During these meetings topics of common interest in both committees were discussed; main issue to keep the common ISO IEC EXPRESS dictionary scheme COMMON.

The consequences to the common EXPRESS information model caused by the update of IEC 61360-1 have been discussed and solutions have been agreed.

Specific by IEC required extensions to the common EXPRESS model are grouped together into the new part 5 of the 61360 series, while specific by ISO required extensions will be concentrated in part 25 of the ISO 13584 series of standards.

No decisions are taken yet about what parts from IEC 61360-5 may be transferred to a new version of the common EXPRESS model (IEC 61360-2).

To solve smaller issues a regular e-mail contact takes place between Prof. Pierra and Dr. Sardet from ISO and Dr. Radley and Mr. F. van Noesel from SC3D; while Dr. Radley uses the meetings in the context of the European MERCI project to discuss with Prof. Pierra technical details and to come to mutual agreements.

The technical help offered by Prof. Pierra and his technical crew in drafting the first CD of IEC 61360-5 was very much appreciated.

Representatives of both committees (ISO STEP Plib and IEC SC3D) expressed their intention to continue the fruitful co-operation and to keep the common EXPRESS Information model COMMON.

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

Frans van Noesel

Annex E



3D(Oslo/Kisselmann)07
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October 2001

**INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ELECTROTECHNIQUE INTERNATIONALE**

SUB-COMMITTEE NO 3D: DATA SETS FOR LIBRARIES OF ELECTRIC COMPONENT DATA

Report of the liaison with MERCI IST Project

MERCI STATUS REPORT

The project started in January 2000 and will be finished in December 2001. The partners agree to extend the project by a further 4 months. The commission already indicated its approval.

Main MERCI meetings held during the reporting period:

- Review Meeting in Brussels on January 19th 2001
- Project Meeting in Paris on March 5th and 6th 2001
- Project Meeting in Hagen on April 10th and 11th 2001
- Project Meeting in Poitiers on May 14th and 15th 2001
- Review Meeting in Hagen on June 26th 2001
- Project Meeting in Oslo on August 30th and 31st 2001

Main activities during the reporting period

Constitution of the Industrial Interest Group (IIG)

The Industrial Interest Group (IIG) consists of 27 companies, mainly SME's situated in France. In several meetings, the demonstrator was presented and improvements proposed.

Improvement of the demonstrator

The demonstrator has been reworked on the basis of the evaluation reports.

Workshop to ensure the interoperability of different dictionaries in San Francisco on June 14/15, 2001

This workshop was organized along the "STEP" week by the ISO TC184/SC4/WG2 ("PLIB") in cooperation with IEC Sc3D, NIST, and the European Project MERCI. Among the participants of the workshop were representatives of the following organisations and initiatives: ebXML, Rosettanet, CommerceONE, JEMIMA, JEMA, JEITA, IEC SC3D, PLIB, NATO, ECCMA, etc. The main result was a report, which describes the identified issues and the related recommendations. All participants have agreed upon the recommendations unanimously.

The most important recommendations were:

- 1 Recommend to use ISO13584 / IEC61360 set of data types for defining the domains of values of properties in product / property dictionaries (see ISO 13584-42 and -25, and IEC 61360-2 and -5)*
- 2 Recommend the information model of the ISO13584/IEC61360 dictionary without enforcing all constraints for defining product / property dictionaries (see ISO 13584-42 and -25, and IEC 61360-2 and -5)*

Development of a Product Data Management System (PDMS)

The goal of the PDMS is to offer a complete solution for the handling product data including capture and management of data, creation of publications on different media up to supporting eCommerce processes, platforms and market places. The pilot will be installed within Infineon.

More information on <http://www.merci-project.com/Merci-Portal/MERCISystem/index.htm>

Wolf-Dieter Kisselmann
Oslo, October 3rd, 2001