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3D/77/RM

2000-11

**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 September 20th, 2000 in Stockholm, Sweden.

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
China	Mr. Rong Zhou	Japan	Mr. Sumio Araki Mr. Satoshi Ito Mr. Mitsuru Takahashi
Egypt	Ms. Sabah Mohamed		
Finland	Mr. Matti Seppälä	Netherlands	<u>Mr. Arnold Gehner</u> Mr. Frans van Noesel
Germany	<u>Mr. Dietmar Borries</u> Mr. Wolf-Dieter Kisselmann Mr. Fritz Reuter	Switzerland	Mr. Jean-Marc Blanc
Observers:		Yugoslavia	Ms. Sofija Krstonosic

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I. Opening of the meeting

The Chairman, Dr. Radley, opened the 10th meeting of SC3D, thanked the Swedish National Committee for hosting the meeting and wished the delegates a good and constructive meeting. He special welcomed the delegates who are attending the meeting for the first time. He also welcomed Mr. Sheldon representing the Central Office as Mr.Cordelier was unable to attend the meeting.

II. Approval of the (Revised) draft Agenda, document 3D/72/DA-1

The agenda was approved without modification.

III. To note the minutes of the meeting of SC3D held in Kyoto October the 27th, 1999, document 3D/69/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. 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(Stockholm/secretariat)02**, is attached as annex A to these minutes. The report was noted.

Members of both committees met each other on regular basis. Topics of common interest are discussed during these meetings. Both committees intend to continue their fruitful co-operation. SC3D/WG2 has received considerable help in the information model covering the extensions resulted of the new IEC 61360-1. As a result of the discussions, the Plib community has recognised the need for similar extensions in the ISO 13584 series.

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

5.1 IEC 61360-1: Definitions - Principles and methods

IEC 61360-1, a new version has been discussed and has been circulated as a 3D/70/CDV. Voting closes on 31 January 2001.

5.2 IEC 61360-2: EXPRESS Dictionary schema

IEC 61360-2, a new version has been discussed and has been circulated as a 3D/74/CDV. Voting closes on 31 January 2001.

5.3 IEC 61360-3: Maintenance and Validation procedures

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.

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

No new documents were issued. A series of supplements to the existing standard will be issued as CDVs as soon as possible as an intermediate solution to include existing requests for new DETs into the IEC reference collection. A first collection of requests for about 300 new data element types has been assembled.

5.5 IEC 61360-5: Extensions to the EXPRESS dictionary schema.

A first draft of this new part has been sent to the Central Office for circulation as a CD for comments. This part contains the extensions to the common IEC/ISO EXPRESS information model needed as a result of the new version of IEC61360-1.

VI 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(Kyoto/WG 1&2)05**

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

Working Group 2

The administrative circular 3D/73/AC requiring assistance from TCs in the validation process was sent to approximately 70 TCs. A positive reply have now been received from over 30% of TCs. It is expected that more positive replies will be received after relevant TC and SC meetings.

The presentation of Dr. Radley which he has also given in the TC3 Workshop gives a good overview of where we are standing now , who is using the IEC dictionary and where we are going. Concern was expressed with other non IEC 61360 compliant dictionaries occurring.

A demonstration of a template was given which can be used when requesting for new or updating data element types. Automatically checks on mandatory fields and valid values are built-in in the template. Such a template is also needed for the definition of classes and terms. It was agreed to prepare a guidance document how to use the templates.

Following the meeting of SC3D in Kyoto, the SC officers were informed that the IEC CO proposes to take on the role of Maintenance Agency for the dictionary based on IEC 61360-4 and to establish a database for it. Subsequently discussions have been held with the Technical Officer responsible in CO. Due to lack of resources no progress was reported by the Central Office since the Muenchen working group meeting in March. It was stressed that the pressure for having a Maintenance Agency established is increasing with other dictionary initiatives occurring. A project plan is now expected by the end of October 2000.

Although it appears that setting up a database using the data from IEC 61360-4 may be relatively straightforward using methods similar to those used for IEC 60617, it is nevertheless stressed that download of all or part of the dictionary in computer-sensible form (SPF or XML) will be essential if the dictionary is to be used widely in industry.

Issues of copyright have continued to cause concern over implementation of the dictionary in IEC 61360-4. The sub-committee has been made aware of a number of projects and consortia around the world who expressed the wish to base their developments on the IEC dictionary but had reservations due to the apparent problems over the use of the dictionary freely in e-commerce. In at least one case a parallel dictionary has been set up which has been offered free of charge to the user community. A major step towards the resolution of these issues has been the signature of a MoU between IEC and one consortium which allows two of these groups to use the dictionary freely in e-commerce for an initial period of one year.

A recommendation has been made by ACET to the CA in ACET/189/RM that a free-of-charge approach be used for all future dictionaries and terminology databases. This recommendation has now been referred by CA to the IEC Council.

A presentation was given by Japan on the need for compliance levels. These compliance levels indicate the compliance between the IEC dictionary and any other dictionary based on IEC 61360. A NWIP will be submitted by Japan embodying this issue. The proposal could result in a new part 6 or an amendment to part 3 of IEC 61360.

Japan reported on a new project JEMA (the Japanese Electrical Manufacturers Association) started in the begin of this year. The project is intended to create a dictionary in the field of manufacturing heavy electrical apparatus and home appliances. 269 Companies are involved in the project and the dictionary will be based on IEC 61360 and Plib methodologies. The project has to be finished in the begin of 2001. A report will be presented at the next SC3D meeting.

Working Group 1.

The document "Classification and coding of shapes" was send to the CO for circulation as a 2nd committee draft for comments. Since the project is older than 7 years the project was transferred to zero stage by the C.A. This means that the document has to be circulated again as a NWIP. The content of the document is strongly related to the work of working group 2 and therefore it was decided that the work should be transferred to WG2. Any amendments needed to the principles can be included as amendments to IEC 61360-1 and amendments needed to the information model can be included as amendments to IEC 61360-5, whilst the classification and coding of component geometries can be issued as part of the planned series of supplements to IEC 61360-4. Accordingly, WG1 no longer has a role and therefore the working group will recommend to SC3D to disband the working group.

VII. Organization of future work

7.1 Activities of the SC3D Working Groups.

7.1.1 Working Group 1 -- "Classification and coding of component packages"

The recommendation of the working group to SC3d to disband the working group and to transfer the work to working group 2 was accepted by SC3D

7.1.2 Working Group 2 -- "Classification of components and definition of technical data element types"

The second edition of International Standard for IEC 61360-1 will be issued by the end of 2001.

The second edition of International Standard IEC 61360-2 will be issued by the end of 2001. Supplements to IEC 61360-4 will be issued by the end of 2001.

A new part 5 will be issued by the end 2001.

As a consequence of the decision to disband working group 1 there is a need to amend the title and scope of WG2. It is proposed that the title of WG2 be amended to "Classification and definition of technical data element types".

Likewise, it is proposed that the scope be amended to :

WG2 : 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.

The proposed new scope for working group 2 and the disbanding of working group1 shall be reported to the Committee of Action

The work program for the next year of working group 2 will be focussed on items as:

- establish the on-line IEC dictionary;
- establish maintenance and validation procedures;
- business model for the IEC dictionary;
- clarify the copyright issues;
- marketing of the IEC dictionary;
- building relationships with partners outside IEC.

7.1.3 To discuss the need for the erection of additional Working Group(s)

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.

VIII To discuss the Strategic Policy Statement, document 3D(Kyoto/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.

8.1 To discuss the Programme of work, document 3D/75/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.

IX Liaisons with:

- **other Committees of IEC, ISO, CEN/CENELEC;**
- **SI2/ECIX (former Pinnacles)**
- **establishment of a liaison with E-Cals (part of N-Cals)**

The established contacts with IEC/TC93, IEC/SC47D, ISO/TC184/SC4/WG2, MERCI, ECIX and EAIJ (ECALS) were continued.

It was agreed that the liaisons with consortia and projects should be established as liaisons type B to allow the exchange of information. It was felt that a liaison with RosettaNet was not needed at the present time since that consortium is now working closely with SI2/ECIX and the IEC's MoU covers both consortia. A liaison with the new JEMA project may not be worthwhile since the project will be complete by the date of the next meeting of SC3D, but Mr Takahashi agreed to produce a report at the next meeting.

The attention of the sub-committee was drawn to possible conflicts between the work of SC3D and that of TC65. It was agreed that the chairman will write a letter to the chairman of TC65 with a view to resolving these issues.

X Liaison reports from:

10.1 Tapio Viitanen on TC93, document 3/552/INF

The report of Mr. Viitanen was noted and is attached as annex C to the minutes.

IEC 61690 Electronic design interchange format (EDIF) Part 1 and 2 was finally published in January 2000.

The contacts with IEC/TC93 were felt to be not satisfying. IEC TC93/WG6 is involved in several projects like EIAJ/ECALS, MERCI and RosettaNet with which SC3D is also liaised. Dr. Radley will provide Mr. Viitanen with information which he can present in the next IEC/TC93 meeting.

Mr. Viitanen reported on a new project "Global Engineering Network" funded by the European Commission. He will provide the secretary with more information about this project.

10.2 Wolf-Dieter Kisselmann on MERCI, document 3D(Stockholm/Kisselmann)07

The report of Mr. Kisselmann was noted and is attached as annex D to the minutes.
More Information about MERC project can be found on: <http://www.merci-project.net>

10.3 Frans van Noesel on CENELEC TC217 and SI2/ECIX, document 3D(Stockholm/vNoesel)08

The report of Mr. van Noesel was noted and is attached as annex E to the minutes.
More Information about SI2 can be found on: <http://www.si2.org>.
More Information about RosettaNet consortium can be found on: <http://www.rosettanet.org>

10.4 Arnold Gehner on SC47D, document 3D(Stockholm/Gehner)03

The report of Mr. Gehner was noted and is attached as Annex F to the minutes.
Mr. Gehner will attend the next meeting of SC47D and will inform the Technical Committee on the work of SC3D.

10.5 Mr. Fumio Tanaka on EIAJ (ECALS), document 3D(Stockholm/Tanaka)09

The report of Mr. Tanaka was noted and is attached as Annex G to the minutes.
The question of harmonizing different dictionaries is important. It is essential that all are based on the same methodology. It was stated that the dictionary produced by ECALS/EIAJ will be made available free of charge to end users, which has clear implications for any dictionary made available by the IEC. Maintenance and validation procedures have been set up by EIAJ which differ in some respects from those proposed for IEC and these should be studied with a view to seeing how the IEC procedures may be improved.

XI To prepare a report for the TC3 meeting of September 21st, 2000, document 3(Stockholm/SC3D)07.

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

XII Any other business.


No other issues were raised.

XIII Date and place of the next meeting.

The next SC3D meeting in 2000 will be held in conjunction with the IEC/TC3 meeting. Date and place has to be confirmed in the IEC/TC3 meeting.

XIV Closure of the meeting

The chairman thanked the delegates for their attendance and contribution to this meeting. He thanked the Swedish National Committee and its staff for the facilities provided and the secretariat support during the meeting. He wished the delegates a safe journey home and closed the meeting.



Peter van Reekum
secretary IEC SC3D

Annex A



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3D(Stockholm/Secretariat)02
September 2000

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 January 2000 New Orleans(USA) and June 2000 Bordeaux (France) In these meetings the topics of common interest in both committees were discussed.

Main topics are the consequences to the common EXPRESS information model caused by the update of IEC 61360-1.

For the time being it was agreed that IEC concentrates their specific extension into the new part of the 61360 series, IEC 61360-5. The specific ISO extension will be concentrated in ISO 13584 the parts 24 and 25(new). At a later stage common extensions may be transferred to a new version of the common EXPRESS mode (IEC 61360-2).

Besides these meetings Dr. Radley and Mr. F. van Noesel from SC3D and Prof. Pierra and Mr Sardet from ISO have a regular email contact to prepare common solutions for the future while Dr. Radley .uses the meetings in the context of the European MERCI project to discuss with Prof. Pierra technical details en come to mutual agreements.

Both committees (the ISO STEP Plib community and IEC SC3D) expressed their intention to continue the fruitful co-operation and to keep the common model common.

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

Peter van Reekum

Annex B



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3D(Stockholm/WG)05
September 2000

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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:

1.1. 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.

1.2. WG2:

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

- 1.2.1.** to describe electric components;
- 1.2.2.** to establish subsets selected from the list of data elements suitable for characterizing individual component classes;
- 1.2.3.** to prepare a standard scheme for classification of components according to function and technology as appropriate.

2. membership:

No changes in the membership since the meeting of SC3D in Kyoto, October 1999.
The active participation of Japan was welcomed.

3. Work since Kyoto:

One meeting has been held since the Kyoto meeting , in Muenchen March 2000. From this meeting informal notes from the convenor are available on request.

Both working groups held joint meetings.

IEC 61360-1: A new version of this document is circulating now as a committee draft for comments and voting document 3D/70/CDV, voting ends January 31st, 2001.

IEC 61360-2: A new version of this document is circulating now as a committee draft for comments and voting as document 3D/74/CDV, voting ends January 31st, 2001.

IEC 61360-3: Administrative Circular 3D/73/AC is circulating now in which Technical Committees and National Committees are reminded of their obligation to co-operate in the Validation process and to appoint a contact person.

IEC 61360-4: working group 2 is working on the supplement(s) to IEC 61360-4. The first set of requests has been collected and the rework has begun.

IEC 61360-5: A first draft of this new part has been sent to the Central Office for circulation as a committee draft for comments. This part contains the extensions of the ISO/IEC common EXPRESS information model needed by IEC; i.e. complex data types and terms.

4. Quotations from the meeting of the SC3D working group 1&2:

working group 2:

- presentation of Mr Ito about compliance levels to indicate the degree of compliance between the IEC dictionary model and a dictionary in the relevant application. The importance of this was recognised. Japan will issue a NWIP for this which could either result in a new part 6 of the 61360 series or be added to the existing part 3;
- Dr Radley presented for comment the presentation he had prepared for the TC3 workshop, with the theme "Where are we now, who is using the dictionary and where are we going". Some small additions and suggestions will be added to the presentation;
- Mr Takahashi presented an overview of a new Japanese project JEMA (Japanese Electrical Manufacturers Association), related to the industries for heavy electric apparatus. The project intends to create a dictionary based on the 61360 and PLIB methodologies. Links were suggested to Mr Nerke (AP212 in STEP) and Mr Selvik (ESPRIT project);
- Mr Araki showed and presented a template to be used when requesting the inclusion of new Data Element Types. The used software has a free run-time licence. Mr van Noesel and van Reekum will comment in detail on the proposed template and check the consistency with the new 61360 part 1;
- It was clear that such a template is also needed for the other entities from 61360-1, i.e. classes, terms and drawings. Detailed information about these will be provided by the secretary;
- In spite of hopeful statements from the CO regarding the Maintenance Agency and the possibility of having a prototype Data Base at the Stockholm meeting up and running little progress has been made since the Kyoto meeting. As the pressure for the need of such a MA increases dramatically, with other dictionary initiatives occurring all the time, the wish was expressed to have discussions later with the relevant co-ordinating CO officer;
- Some ideas were generated how to continue, and possible scenarios about the co-operation with other dictionary initiatives were discussed. Discussed topics were:
 - a business model
 - clarify the copyright issue
 - marketing of the IEC dictionary
 - building a relationship with partners outside the IEC like EIAJ (ECALS), RosettaNet and MERCI.

working group 1:

The situation concerning the "package document" was discussed. The discussion resulted in:

- recommendation to SC3D to disband working group 1 as the work is very strongly related to that of working group 2 and most members are the same in both working groups;
- in consequence the scope of working group2 has to be reviewed;
- transfer the work to working group 2;
- split the "package document" into two parts;
- include the parts related to methodology into 61360-1;
- include the parts related to classification, data element types and terms into 61360-4;
- the tables from 60191-4, used for the classification of the packages, will be added as informative annexes to 61360-4;
- the impact of the "package document" on the EXPRESS model will be discussed with Prof. Pierra by Dr Radley and Mr van Noesel. The strong wish to preserve a common EXPRESS information model was once more expressed by the working group members. Extensions needed by IEC will be incorporated in 61360-5;

5. Planned working group meetings

Next working group meetings are scheduled:

February 14-16, 2001	Eindhoven, The Netherlands (related to the Lisboa (STEP) meeting
May 21-23, 2001	London, United Kingdom
October, 2001	In conjunction with the TC3 meeting



Peter van Reekum
Convenor SC3D / WG 1&2
September 15th, 2000

Annex C



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3/569/INF
INFORMATION
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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 Stockholm 2000

1 Meetings and other activities

TC 93 had its last meeting in Arlington USA September 1999 just before TC 3 group-meeting in Kyoto (see 3/552/INF). Next TC 93 meeting will be arranged in Frankfurt October 2000.

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

IEC 61690 *Electronic design interchange format (EDIF) Part 1 and 2* was finally published in January 2000.

4 Documents under work of interest to TC3 with SCs

About the draft IEC 62016 (93/90/CD) *Design automation reference model - Core model of the electronics domain*, the second CD 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 harmonization (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 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.

Tapio Viitanen
Liaison officer to TC93

Annex D



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3D(Stockholm/Kisselmann)07
September 2000

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO. 3: DOCUMENTATION AND GRAPHICAL SYMBOLS

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

Report of the liaison with MERCI Esprit Project

MERCI STATUS REPORT

The project started in January 2000 and will be finished in December 2002.

Main MERCI meetings held during the reporting period:

- Kickoff Meeting in Munich on February 1st and 2nd 2000
- Project Meeting in Poitiers on February 29th and March 1st 2000
- Project Meeting in Paris on July 5th and 6th 2000.

Main Activities during the reporting period

Constitution of a first basis of the Industrial Interest Group (IIG)

A first level of communication and presentation of the project, besides the web site, has been achieved by sending a mailing (including MERCI flyer) throughout 700 european companies.

Creation of a demonstration prototype

The demonstrator provides the outline of the software infrastructure that will be used by the MERCI Agency – enabling a (web-based) data-centric communication between manufacturer and the user of electronic components.

IEC TC92 WG 6 Meeting, Paris, 30 March 2000

MERCI presented its goals and approaches to IEC TC92 WG 6. Attendees came from the US (Rosetta Net, EDIF, ECIX), from Japan (Ecals, EIAJ), from IEC, and from various European companies (e.g. Thomson, Aerospatiale).

PDT Days 2000, Noordwijk (The Netherlands), 3-5 May 2000

University of Hagen presented a paper about "MERCI: Integration of EXPRESS based and XML based component information representation".

ISO SC4 Meeting, Bordeaux, 26-29 June 2000

The current demonstration prototype has been introduced to all participants who had the opportunity to comment, discuss and exchange with MERCI partners.

ICE 2000 Conference, Workshop on supply chain support, Toulouse (France), 29 June 2000

At this one day workshop MERCI presented the goals, approaches and the demonstrator in depth.

Note

Because of user requirements to actually make use of standardised DETs, IEC 61360 was chosen from the consortium as the reference dictionary.

More Information on <http://www.merci-project.net>

Stockholm, September 20th, 2000

Annex E



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September 2000

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

CLC TC217

No meetings were held for TC217. In October 2000 a meeting is planned.

SI2-ECIX

Regular meetings were held. The SGML modelling language has been replaced by XML. The intermediate results of ECIX are offered to the RosettaNet consortium to which the ECIX members became a partner.

Philips, as RosettaNet member tries to have the IEC dictionary also to be used within RosettaNet. Currently the board has chosen to use the ECALS (EIAJ) dictionary.

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

Frans van Noesel
September , 2000

Annex F



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September 2000

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO. 3: DOCUMENTATION AND GRAPHICAL SYMBOLS

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

The only topic of interest to report is that the International Standard IEC 60191: Coding system and classification into forms of package outlines for semiconductor device packages is published now.

The interest of SC3D in the work of SC47D is only related to this document.in respect to our document: classification and coding of shapes of electronic components for placement on printed wiring boards. We now have adapted in this document the tables from IEC 60191

This was the only objective. We shall follow further developments in this field.

Arnold Gehner

Annex G



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**The dictionary standardization for the computer-sensible description of electronic component information
ECALS-Dictionary and it's maintenance and interoperability**

1 Principle of the dictionary in Electronic Industries Association of Japan (EIAJ)

1.1 Objective of the dictionary

To provide computer-sensible description standard of classifications and terms that used in component catalog to share between suppliers and users for easy searching and distributing.

1.2 Category range of the classification

The registration of the classification in one dictionary is limited to the category, which concern is shared between suppliers and users. Therefore, a category, which concern is not shared in the market, has the possibility of being rejected.

1.3 Interoperability of the dictionary

It seems that it is difficult to make the same dictionary by the difference in the custom and so on even if it is the same category though it is ideal to use the same dictionary between markets, and It is important to devise how to harmonize dictionaries. Therefore, having the same methodology between dictionaries is the most important.

2 ECALS-Dictionary

2.1 Status of the ECALS-Dictionary

For harmonization with international standards, the ECALS-Dictionary has been developed pursuant and with reference to IEC61360 and ISO13584 to the greatest possible extent.

2.2 Structure of the ECALS-Dictionary

The ECALS-Dictionary consists of the following seven documents.

- (1) Class Dictionary
- (2) Property Dictionary
- (3) Class and Property Relation List
- (4) Property Value List
- (5) Segment Definitions
- (6) Template Management Data
- (7) Template

2.3 Copyright

The copyright is needed to keep identification of the dictionary, but the use of the dictionary should be free of charge for anyone.

Reason: When the ECALS-dictionary circulates in the plural, confusion is likely to be caused in the control of maintenance and the use. When it is cleared that it is a different dictionary, we should use the classification and properties of other dictionaries each other freely.

2.4 Classification and property

Classification and property are fundamentally labels to show the source-directory and the performance of the products and created with a product which supplier develops. Advantage convenience over the scientific accuracy is the principle of a standard for a judgement. The classification and properties that proposed mainly by supplier are to be decided by the validation with user.

Each attribute item and the data element type (DET) comply with the international standard to keep interoperability with other dictionaries. But, a definition of an attribute item, for example, "short name" that is no hindrance by using conversion table seems to be able to decide individually in each dictionary.

Though there are some classes of a name like use, they should be avoided to use by the future revision because of poor universality.

2.5 Maintenance

Opening to the public and speedy correspondence is pursued.

The judgment rule of classification and property registration is under examination by the viewpoint of the advantage convenience. The maintenance cost seems to be reduced by using a judgment rule without human dependency and dispersing of validation assignment. The members share maintenance and validation activity with the volunteer activities, and the necessary minimum cost is paid in the dues.

VA Responsibility and authority of the ECALS-Dictionary belongs Validation Agency. Common property and whole composition are handled mainly in VA. Mapping of VG is the mission of VA. Responsibility and authority are transferred to VG by the discussion so far as it is possible.

VG Responsibility and authority of each class and it's properties belong to each Validation Group.

MA Main mission of Maintenance Agency are reception of proposals, arrangement for the validation, publication and distribution of the dictionary.

3 IEC dictionary

3.1 Status of the IEC dictionary

The status of IEC dictionary seems to be desirable as a master dictionary to keep the interoperability of those kind of public dictionaries. IEC61360 standard is very important in the meaning of providing the methodology of the dictionary composing. But, it seems necessary to clarify the relation with other IEC standards, i.e. IEC60115, IEC60269, IEC60384, IEC60393, IEC60404, and so on, too.

3.2 Copyright

It seems the copyright is needed to keep identification of the IEC dictionary, too. But it is to be desired the use of the dictionary is free of charge for anybody. In that meaning, the policy shown in **ACET/189/RM** is welcomed.

3.3 Classification and property

Classification and property in the IEC dictionary are defined by the scientific basis, that is, the standard for a judgement is based on taxonomy and terminology. Therefore, it is a fact that there are some difficulties in the way of definition in the ECALS-Dictionary that aims at the expression of products in corresponding with the IEC dictionary, and the ECALS-Dictionary leaves the problem of interoperability with the IEC dictionary. Getting over difference between the dictionaries, it is expected that a search of contents data and a data exchange can be done by an idea with the tool of PLIB conformity and so on.

3.4 Proposal to IEC61360 standard

3.4.1 Separate part-4 as an output of IEC61360 standard to make maintenance of the dictionary easy to do.

Reason: Though it is desirable to share VG by related TC when it is maintained as a standard, it seems difficult for mapping all classes to VG. If the dictionary is separated from the standard itself, it seems that a folks group and so on can easily participate in the assignment of VG.

3.4.2 Specify a standard of a judgment to deliberate the registration to the dictionary in VG and VA in part-3.

Reason: There is anxiety of a hindrance in the deliberation because the standard for a judgment to register classification and property to the IEC dictionary isn't cleared yet.

Fumio Tanaka



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