# INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

**Day report from the meeting of TC3 held in Paris 2007-11-22**

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| 1    | Opening of the meeting  
The Chairman opened the meeting and welcomed the delegates. He also mentioned that apologies had been received from the NC of the Czech Republic, but that had sent a document with positions with regard to the agenda, available as 3(Paris/CZ)12. Apologies had also been received from the NC of Denmark. |
| 2    | Approval of the agenda  
Item 8.6 on a proposal from the NC of Japan, available as 3(Paris/JP)16 was added.  
The agenda was then approved. |
| 3    | To note the approval of the minutes from the previous meeting of TC3 in Berlin 2006-09-25/26  
Noted. No remarks. |
| 4    | To receive information from the IEC Central Office  
Initially postponed, as Mr Copy had been delayed in the traffic.  
Later, before lunch, he made a presentation based on a slide series available also as a 3C(Paris/CO)03 [http://tc3.iec.ch/meetings/sc3c/2007/paris/03Information_CO.ppt ] |
| 5    | To receive a report from the Chairman of TC3  
5.1 Secretariat of SC3D  
The Chairman mentioned that the Secretariat of SC3D has been transferred from the Netherlands to Germany, and that Mr. Reinhard Nerke will take over the duties as secretary from Mr Addie Dijkstra in the middle of December.  
| 5.2 Chairmanship of SC3D  
The Chairman mentioned that Dr. Donald Radley will end his period as Chairman by the end of 2007. The procedure for getting a new Chairman is going on and has not yet ended. |
| 5.3 Lord Kelvin Award to the Secretary  
The Chairman also mentioned that the Secretary of TC3 Mr. Per-Åke Svensson this year was one of the three recipients of the Lord Kelvin Award. |
| 6*   | To note the report from the co-ordination meetings in with TC3 Officers in Geneva 2007-04-19/20 |
Accepted as written; no remarks.

7* To receive a report from the Secretary of TC3, including actions taken as a result of the minutes from the meeting in Berlin and the later co-ordination meeting
Accepted as written; no remarks.

8 IEC 60617 *Graphical symbols for diagrams*

8.1* To consider the Report on the status of the IEC60617 database and on the implementation of the procedures.
Accepted as written; no remarks.

8.2* To consider the Report from the Validation Team for IEC60617 on validated graphical symbols in the IEC60617 database.
Accepted as written; no remarks.

8.3* To consider the report from PT30 *Alarm and signalling symbols* [Mr. T. Borglin]
Accepted as written; no remarks.

8.4 To consider the disbanding of PT32 *Elaboration of the application notes of IEC 60617*

The Secretary mentioned that the result of the work of PT32 is now fully validated, although some general changes to be done in the database are not yet implemented.

Decision: The PT32 was disbanded with thanks to the members for a work well done.

8.5 To consider the report from PT38 *Rules for the construction of graphical symbols for diagrams* [Mr. S. Araki]

The report was accepted; no remarks.

8.6 To consider the draft *Mnemonics and designations of symbols for measuring relays, instruments and related devices*, from the JP NC

Prof. Hiroaki Ikeda introduced the proposal from the NC of Japan. The intent was to propose it for publication as a TR, with reference to 3(Paris/JP)16.

The proposal caused a lengthy discussion, bringing up subjects as:

- The codes in the symbols are abbreviations of names. How are these names constructed? Is there a systematic approach?
- The names for measuring relays ought to at least partly be co-ordinated with dictionary definitions in IEC and ISO.
- If these codes are accepted they should be published in the IEC 60617 database.
- TC65 has a list of names for measuring instruments. This should be compared with the proposal.
- Document 3/864/CD has a short description for the principles applied for creating symbols for detectors. A similar description is desired for these relays.
- Measuring relays are dealt with by TC95.
- How far is it needed to go with the naming. The area approaches the area of naming in functional programming, dealt
Item Relevant documents

with by SC65B.

The order of the work ought to be:

- Make a conceptual description of the principles for creating names.
- Co-ordinate with TC65 and TC95
- Principles for making the codes
- Construct the actual codes.

Decision: Set up a new PT for dealing with this subject (stage 0 work). Japan is interested in leading this project.

9 IEC 60848 GRAFCET specification language for sequential function charts

9.1 To consider the report from the Convenor of MT 33 [M. N. Bouteille].

No report was available.

10 IEC 61082 Preparation of documents used in electrotechnology

10.1 To consider the Report from the Convenor of MT 16 [Mr. H. Brückner].

Nothing to report.

11 IEC 61175 Industrial systems, installations and equipment and industrial products, Designation of signals

11.1 To consider the Report from the Convenor of MT 17 [Mr. K.-A. Thorn].

The report was accepted; no remarks.

12 IEC 81346 Ed. 2 - Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations and IEC 61666 Ed. 2 - Identification of terminals within a system

NOTE – The project IEC 61346-1 Ed. 2 has been renumbered to IEC 81346-1 Ed. 2, in order to include ISO parts in the same series.

12.1 To consider the Report from the Convenor of MT 18 [Mr. E. Selvik].

Mr. Eirik Selvik report presented his report 3(Paris/MT18)14.

The report was accepted; no remarks.

12.2 Discussion of possibly arising questions as a result of the circulation of document 3/842/CD, 3/844/CD and 3/8xx/CDV (submitted for circulation)

The Secretary mentioned that the CDV had been sent to the IEC/CO earlier and that the French version was expected in the beginning of December. The CDV was therefore expected to be circulated during December. The English version of the CDV was available to the meeting as 3(Paris/Secretariat)17.

No discussion took place.

13 IEC 61355 Ed. 2 Classification and designation of documents for plants, systems and equipment

13.1 To consider the Report from the Convenor of MT 19 [Mr. H. Brückner].

The Convenor of the MT19 Mr. Hans Brückner reported.

No real work has yet been done on the database. It is expected that the database content will be available at the same time as the IEC 61355 Ed. 2 will be published.
Item | Relevant documents
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13.2 | Discussion of possibly arising questions as a result of the circulation of 3/835/CDV
No discussion.
14 | IEC/PAS 61906 Procedure for the declaration of materials in products of the electrotechnical and electronic industry
14.1 | To consider the coordination with TC111
The Secretary reported with reference to document 3(Paris/Secretariat)7.
IEC/PAS 61906 will need to be either withdrawn 2008-06 or its validity extended for another 3-year period.
As TC111 has not yet circulated any CD for a publication for its replacement it seems reasonable to extend the validity.
Decision: If TC111 has no objections, TC3 should ask for the extension of validity of IEC/PAS 61906 for another three-year period.
15 | IEC 62023 Structuring of technical information and documentation and IEC 62027 Preparation of parts lists
15.1 | To consider the Report from the Convenor of MT 20 [Mr. P-Å. Svensson].
The report was accepted and the proposals agreed.
16 | IEC 62079 Preparation of instructions - Structuring, content and presentation
16.1 | To consider the Report from the Convenor of MT 21 [Mr. M. Rust].
No report was available.
16.2 | To consider the new Work Item Proposal from JP on the application of IEC 62079 to consumer products.
The NC of the Czech Republic had informed that they intended to withdraw from participation in the project in 3(Paris/CZ)12.
Mr. K-A Thorn had the day before informed by phone that the NC of Denmark intended to take part in the project by him as member, mainly acting by correspondence.
Mr. Thomas Borglin reported that the NC of Sweden intended to take part in the project with himself as member.
The number of experts has therefore increased to 5, which is sufficient for starting the project.
Mr. Fritz Reuter expressed his concern about having another publication so closely related to the existing IEC 62079. It was agreed by others that this might cause confusion.
Decision: The proposal from JP should be integrated into IEC 62079 at the preparation of IEC 62079 Ed. 2
A call for additional members to MT21 should be distributed and the work on IEC 62079 Ed. 2 started.
17 | To note the publication of IEC/PAS 62515: Requirements concerning the interoperability between electromechanical and electrical applications in CAx- systems
The publication was noted.
Item | Relevant documents
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18 | IEC-ISO 81714 *Design of graphical symbols for use in the technical documentation of products*
18.1 | To consider the Report from the Convenor of MT 22 [Mr. F. Reuter].
*The report was accepted; no remarks.*
19 | IEC-ISO 82045 *Document management*
19.1 | To consider the Report from the Convenor of MT 23 IEC-ISO 82045-série [Mr. F. Reuter] No written report. See 19.2.
19.2 | To consider the Report from IEC TC3 - ISO/TC10 JWG15 - Management data (meta data) for documents, including the ISO/TC10 – IEC/TC3 Study Group for Improvements in standardisation of Document Management – and relevant decisions
*Mr. Fritz Reuter reported that the report from the Study group had been accepted at the meeting of ISO TC10 without any decision for any action.*
*Decision: No specific action from TC3 this time, but we are of course still willing to co-operate in the area when possibilities occur.*
20 | IEC 62491 Ed. 1 *Labelling of cables and cores*
20.1 | To consider the report from PT 35 *Marking of conductors and cables* [Mr. P.-Å. Svensson]
*Mr. Fritz Reuter is in the report missing as member of PT35.*
20.2 | Discussion of possibly arising questions as a result of the circulation of 3/849/CDV
*No discussion. The CDV is closing 2007-12-07.*
21 | IEC 62507 Ed. 1 *Rules for identification systems*
21.1 | To consider the report from PT 39 *Basic rules for identification systems* [Mr. P.-Å. Svensson]
*The Secretary introduced the report document 3(Paris/PT39)5.*
*Mr Hiroshi Murayama commented that some comments provided by ISO TC184/SC4 are missing in the compilation and was asked to forward them if he has them available.*
*The scope of the publication, and its possible limitation was discussed, but no decision taken.*
**Decision:** The PT was asked to have a physical meeting to make an overview of existing standards and discuss the scope of the intended publication.
22 To consider the status of the work on NP Blank detail specifications, Part 1: Principles and methods, and Part 2: Structure of a blank detail specification, and subsequent decisions

No voting report for the NP was yet available although some comments compiled in 3(Paris/Secretariat)18. It was noted that even if the comments indicated a positive response to the work as such and that it corresponds to an industrial need, there were negative responses to the draft.

Mr Fritz Reuter said that the idea had been to develop part 2, which is the most important part, and to extract the method parts for part 1 in parallel.

Mr Hiroshi Murayama asked for the scope of part 2 and said that the BDS had to be well defined with a data model.

Mr Reuter also said that the term used for the BDS is not good for a general understanding.

The BDS-DET relations were to be further discussed at a separate meeting the subsequent day.

23 To receive a report from the Chairman of SC3C - Graphical symbols for use on equipment - and relevant decisions

The Chairman of SC3C, Mr. Yuji Nakamura, presented his report with reference to document 3C(Paris/SC3C)8.

Discussion:

Mr Fred Brigham said that the paragraph after the citation under item 8.1 of the report had been added after the meeting and not during the meeting as there had been no time for discussion.

The expression about “overall responsibility” in an annex attached to the liaison report is a red flag and should not have been used in connection with the liaison report. The document was, however, sent in good faith from ISO TC145 SC3 in order to get feedback.

Prof Hiroaki Ikeda pointed out that the Chairman’s report does not use the expression “overall responsibility”.

He stressed that a liaison report should be written in a way to avoid misunderstandings. A liaison statement should focus on the technical work.

Mr Brigham further pointed out with regard to the trial classification (item 6.3) that all symbols should be subject to the classification. All agreed to this.

With regard to the liaison report from ISO TC145 SC3 Prof Ikeda said that it had been received late, and that the topics (about overall responsibility) had not been appropriate for discussion at the SC3C plenary.

The Chairman pointed out that the TC3 is not a judge who did something wrong, but that the task was to decide what can be done from now on. ISO TC145 and IEC TC3 SC3C have a shared responsibility for the common database, not a split responsibility. TC3 has already at a previous meeting stated that since the procedures are now aligned (at least formally) there should not need be any difficulties with the common maintenance of the database.

Regarding the “one-stop-shop” functionality from a user perspective, this could very well be achieved also when the responsibility for the
It was agreed that in reality there are still minor differences with regard to the procedures, even if they are formally similar. These should however not be a trouble for co-operation.

Mr Brigham said that the “one-stop-shop” may be difficult to achieve at the moment because the procedures and forms for submitting symbol proposals are different.

It was suggested that this could be overcome by the use of a common IEC-ISO entry page where the proposer of symbols could enter the symbol proposal and classify it with regard to application, but not be faced with which committee that would later process it. This should be of no interest to him.

Mr. Nakamura said that this subject should not be further discussed at the TC3 meeting, and that he would do his best to co-operate with ISO.

The Chairman responded that a solution should be sought in a minor sub-group not in SC3C.

Decision: An ad hoc group should be set up containing the Chairmen and Secretaries of IEC SC3C and ISO TC145 SC3 to continue the discussion. (I.e Mr. Yuji Nakamura, Prof Hiroaki Ikeda, Mrs. Sue Hooker, and Mrs. Sara Desautels)

The ISO TC145 SC3 /IEC SC3C task Force should be put on hold for the time being.

24 To receive a report from the Chairman of SC3D - Data sets for libraries - and relevant decisions.

The Chairman of SC3D, Mr. Donald Radley, reported with reference to document 3(Paris/SC3D)9.

As this was the last meeting for Donald Radley in his function as Chairman and for Addie Dijkstra in his function as Secretary for SC3D, the Chairman thanked them both for the work they had done for the committee.

Two gifts were handed over.

Donald Radley responded that it had been almost been a surprise for him when he some time ago understood that he had actually been Chairman since 1990, 17 years. During this time he had seen a dramatic change in understanding of the work done and in the working methods. This had not been possible without the help provided by the Secretaries.

Addie Dijkstra thanked for the co-operation with Donald as well as with his predecessor Mr van Noesel, and for all he had learned from them.

As a gift from the TC he presented a photo book from the years Donald had been Chairman. It was presented on the screen during the coffee break. As book it will be printed as soon as the last pictures from the present meetings had been put into it.

25 Consideration and discussion of common database issues

25.1 Status of copyright/licensing issues

The Secretary described the background and actions since the last meeting in Berlin.

Mr. Reinhard Nerke presented part of the slide series.

The Secretary presented the proposal for a License agreement.
Regarding the license agreement:

- There should be an additional clause stating that the copying of the structure of the dictionary should also be allowed.
- 3rd party usage should be explicitly mentioned.
- Multiuser usage should be explicitly mentioned.

The essence of the agreement is that:

- some elements of all the standard databases should be allowed to access and to distribute freely and without cost, also to a 3rd party;
- some additional elements, specifically depicted for each database, should also be possible to access and distribute under the same conditions;
- the remaining elements, and downloading of the entire database, would require the acceptance of the license agreement and normally have a cost.

**Decision:** The participants in the meeting were encouraged to send proposals and examples for improvements to the Secretary.

It was also mentioned that there are databases on the market using the structure of IEC 61630. The proposal will then be sent to IEC CO for further action.

25.2 Status of efforts to make use of standards databases also for National standards

This item was considered to have been sufficiently covered in the Workshop.

It had been demonstrated that a multilingual (pilot) database of IEC 61417 exist with English, French, German and Japanese languages (approx 1000 symbols).

For IEC 61360 a German version exist in addition to the English one.

25.3 Necessary IT infrastructure for database standards in IEC/CO

Mr Radley of SC3D remarked that more resources will be needed for the maintenance of the databases and especially for the tools required.

All are very grateful for the work done by Alan Maislisch, but we think that we are now reaching a stage where additional resources are necessary.

25.4 IEC business model for marketing of databases

It is desirable with a common business model for all the database standards.

It was noted that the business model, based on the splitting of the material in a database in a free and a cost part could be applied to all the database standards.

The price for the database should cover the cost for the maintenance.

The Sales Advisory Committee should be recommended to deal with question.

25.5 Common solutions for IEC and ISO

It is a strong request that IEC and ISO come to common solutions with regard to entry end usage.
26 To discuss the Draft Strategic Policy Statement Strategic Business Plan (SBP) decisions taken in the sub-committees.

The Secretary explained that TC3 has become a test TC for the new SBP, and made a quick walk-through of document 3(Paris/Secretariat)13.

Prof Ikeda said that SC3C will provide D-E together with the action plan.

Dr Radley said that SC3D will do the same within 2 weeks.

Mr Reuter asked what is the real reason for the change from SPS to SBP.

Mr Coupy of IEC/CO answered that the SBP is intended to be less technical and more of an advertisement for the TC, describing the future activities.

27 To receive a report on activities related to Sector Board 3

The Chairman mentioned that the activities of SB3 are low and that it is close to the level of being disbanded.

28 To receive a report on activities related to the Memorandum of Understanding (MoU) between IEC, ISO, UN/ECE, etc concerning standardisation in the field of electronic business.

The Secretary reported that MoU/MG has a number of activities of interest to TC3 and referred to document 3(Paris/Secretariat)6.

TC3 has been invited to the next meeting to describe and discuss the project on Identification systems.

29 To discuss future work in the area of documentation; stage 0 projects and NPs

29.1 PWI 3-3 Ed. 1.0 Documentation of products, systems and plants with integrated technologies

No activity.

29.2 PWI 3-4 Ed. 1.0 Integration of documentation into products, systems and plants

No activity.

29.3 PWI 3-6 IEC/ISO Documentation system

The Secretary recalled the history of this project. It had been started as a stage 0 project at the Cape Town meeting. There is a first draft for it. ISO TC10 has indicated its interest in the matter, but in spite of efforts by e-mail, no further contributions have been received.

This overall description of the documentation system is also of interest as an umbrella for examples of applications of our standards. It has already been noted that application examples of single standards usually says too little. References to this planned series has already been made when the comprehensive application examples were taken away from IEC 6182-1, and also when IEC 61346-3 is planned to be withdrawn.

Mr Reuter asked: do we have resources. It might be useful but with low priority.

Mr Murayama said that a project on Business documentation is going on in ISO TC184 SC4.

Mr Selvik said that in the long term this is a useful project, but short
term no. How am I going to use the standards, how do they interact. Small and Medium Enterprises need it, and it must not be too sophisticated.

Mr. Reuter added that it could be helpful for the capacitating of people.

Decision: It should be kept on the list. We may have resources when the ongoing revisions are ready.

29.4 PWI 3-704 ISO 82045-4: Document management - Part 5: Archiving
No activity

30 To review the P- and O- membership of the committee
This report should be added to the RSMB.

31 To review liaisons with other bodies (on subjects not already covered), and to specifically consider related decisions in the SCs (all reports to be circulated in advance of the meeting):

31.1 IEC TC16 Basic and safety principles for man-machine interface, marking and identification [Liaison officer: Mr. E. Selvik]
Mr Selvik read his report with reference to 3(Paris/TC16)15.
The report was accepted (but there is a writing error in it: “IEC TC16 has started the work on merging IEC 60445 and IEC 60445” should be “IEC TC16 has started the work on merging IEC 60445 and IEC 60446”.)

31.2 IEC TC44 Safety of machinery - electrotechnical aspects [Liaison officer: W. Anderson].
No report was available.

31.3 IEC TC65 Industrial-process measurement and control [Liaison officer: To be appointed].
No report was available.
Mr. Udo Döbrich took on the task as liaison officer.

31.4 IEC TC93 Design automation
* It was decided to contact IEC TC93 and ask if this liaison can be disbanded.

31.5 IEC TC111 Environmental standardization for electrical and electronic products and systems
No further comments.

31.6 ISO TC10 Technical product documentation [Liaison officer: Mr. J. Aagaard].
No report was available.

31.7 ISO TC184/SC4 Industrial automation systems: External representation of product definition data. [Liaison officer: To be appointed].
No report was available.
Mr Hiroshi Murayama took on the task as liaison officer.

32 Update of the work program of TC3
This will as usual be updated by the Secretary.

33 To note and consider marketing efforts

33.1 Reports from the National Committees.

JP: All TCs are having a promotion campaign for getting young people.
The existing technical communication material is being improved.

CZ: In the Czech Republic we have published a publications “Symbols on appliances for consumers” (written by ESiCCO) that is used and helpful for Czech consumers.

33.1 Wikipedia

The Secretary said that Wikipedia is a useful dictionary on the Internet. It contains already many articles on subjects being dealt with in TC3 with SCs. Some subjects are not yet covered. This is tool that a lot of students of today will use. Therefore it’s a good place to speak about the content of our standards.

Some articles are good, others not. Check your areas of interest! If you find something that is not so good, improve it! Standards are excellent as source references.

The Secretary had asked Jack Sheldon if it is acceptable to use term definitions as basis in the articles and got acceptance for this. The Scope clauses of standards may also contain useful material (and they are already public).

34 To note the use of the TC3 web site on the IEC-server http://tc3.iec.ch.

35 Date and place of next meeting 2008.

TC3 and SCs has been invited by the NC of the Czech Republic to hold meetings in October or November.

The dates have not yet been fixed but the second or third week of October will be given preference.

Preliminary planning for 2009.

The GM 2009 will be held in Tel Aviv. We will make an effort to get there.

36 Other business

The Chairman reported that this year there were no 1906 Award winners in the TC3.

37 Close of the meeting

The Chairman thanked the French National Committee and UTE for the nice facilities and arrangements for the meetings.

He then closed the meeting, and wished the participants a safe journey home.