

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE No. 3 : DOCUMENTATION AND GRAPHICAL SYMBOLS

**Unconfirmed Minutes of the meeting of TC 3 in Rotterdam
on the 8th October 1992**

Present:

Chairman: Mr. P.D.C. Reefman (*Netherlands*)

Secretary: Mr. P.-Å. Svensson (*Sweden, Secr. SC3B*)

Central Office: Mr. Cordelier

<i>COUNTRY</i>	<i>DELEGATES</i>	<i>COUNTRY</i>	<i>DELEGATES</i>
CHINA	Mr. S. Li	NETHERLANDS	Mr. F. Brigham (<i>Secr. SC3C</i>) <u>Mr. A. Gehner</u>
DENMARK	<u>Mr. K. Jensen</u> Mr. I. G. Jørgensen		Mr. F. T. A. van Nosel (<i>Secr. SC3D</i>)
FINLAND	Mr. T. Viitanen	NORWAY	<u>Mr. H. Hay</u> (<i>Chairm. SC3B</i>) Mr. J. Pettersen Mr. E. Selvik
FRANCE	<u>Mr. J. Bodin</u> Mr. J. Dubray	POLAND	Mrs. J. Chwatow
GERMANY	<u>Mr. E. Abel</u> (<i>Chairm. SC3A</i>) Mr. E. Hähle	SWEDEN	Mr. B. Åkerberg
INDONESIA	<u>Mr. S. Gitosusastro</u> Mr. R. Sardjono Mr. L. Hutagalung	SWITZERLAND	Mr. A. Fornalski (<i>Secr. SC3A</i>)
JAPAN	Mr. S. Araki <u>Mr. H. Ikeda</u> Mr. Y. Nakamura (<i>Chairm. SC3C</i>)	UNITED KINGDOM	<u>Mr. G. B. Nicholson</u> Dr. D. E. Radley (<i>Chairm. SC3D</i>)
		U. S. A.	Mr. C. R. Muller <u>Mr. T. R. Smith</u>

Observer Mr. K. H. Bergner (*Secr. ISO/TC145*)

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I Opening

The Chairman of TC 3, Mr. Reefman, opened the meeting and welcomed the delegates.

On behalf of the Netherlands National Committee Dr. C. A. J. Simons welcomed the delegates wishing them a successful meeting. He also pointed at the interest for this work shown at the recent meeting of the Committee of Action.

The Chairman expressed a special welcome to Mr Bergner as representative for ISO/TC145.

The Chairman noted the death of Dr. Piazzzi of Italy. Dr. Piazzzi showed a great interest in the work of TC3A , and especially SC3A. He was commemorated with a minute of silence.

II Approval of the Agenda, document 3(Central Office)561

The revised agenda, document **3(Central Office)561/A**, which included meeting document references, was approved with the addition of:

Item 18.3 Report on the CA decision 10/1992 on the setting up of a task force on technical documentation.

III Confirmation of the Minutes, document RM3430/TC3

The minutes from the last meeting of TC 3 in Paris, document **RM3430/TC3**, were confirmed after correction of the following errors:

page 1: DELEGATES: Mr. J. Bodin (*Secr. SC3A*) change to (*Secr. SC3C*)

page 8: Item 16.7 IEC/TC65 Industrial-process Measurement and Control

The Secretary reported on actions taken as a result of the decisions in the minutes, with reference to a written report presented as a meeting document.

IV Report from the Chairman of TC 3

The Chairman reported on the following items.

4.1 Meeting with Chairmen, Secretaries and WG Convenors

A meeting with Chairmen, Secretaries and WG Convenors was held in The Hague in May 1992. The purpose of this meeting was to give the participants an opportunity to discuss common matters as a preparation for the Rotterdam meeting.

4.2 Chairmanship of SC 3B

With the meeting of SC 3B in Rotterdam the period of Chairmanship of Mr. Hay is formally ending. The Chairman of TC 3 thanked Mr. Hay for his valuable and enthusiastic contribution to the work the last 10 years and handed over a present.

Mr. H. Hay in his turn thanked for the nice words and for the present.

As new Chairman, the Swedish Secretariat has nominated Mr. F. Reuter, **AC 283/92**.

4.3 Secretariat of SC 3C

The Netherlands National Committee has taken over the Secretariat of SC3C from France.

Mr. F. Brigham has been appointed Secretary of the Sub-committee.

The Chairman wished the new Secretary welcome and thanked the past Secretary Mr. J. Bodin for the work done.

Mr Bodin thanked for the kind words, and noted that the work had not been possible without the support he had felt from the National Committees.

V Report from the Chairman of SC 3A - Graphical Symbols for Diagrams

The Chairman of SC 3A, Mr. E. Abel, reported in accordance with **Annex A**.

It was noted that the "co-convenor" in 3A/WG1 is necessary for reasons of work load. The work can not be split into different project.

The retirement of Mr Schmitt was noted. He is still doing work for the SC3A and was given a warm applause.

Mr Åkerberg commented that

- the JWG referred to in the second paragraph on page 2 should be changed to ISO/TC10/SC10/WG1, and
- the drafts referred to in paragraph four was prepared by the IEC/TC3-ISO/TC10 JWG and not ISO/TC10/SC10.

These comments were accepted.

VI Report from the Chairman of SC 3B - Documentation

Mr. Reuter reported in accordance with **Annex B**.

As a comment to the report, the difficulties to get information on work going on in other committees was noted:

If a document is circulated with a note in the introduction that it is of interest also to a committees NN, this means that it will be sent for information to the Chairman and Secretary of that committee. The delegates of the National Committees are not necessarily informed. Mr Bodin proposed therefore that such a document should be shown in the Work Programme of committee to which reference is made, for example in a separate section called Liated work.

Mr. Abel proposed that the forms used for different document kinds should be developed so that also the committees for which a document is of interest can be listed in a formal way.

Decision: The delegates at the meeting gave strong support for these ideas and asked Mr. Cordelier to bring them to the Central Office for consideration.

VII Report from the Chairman of SC 3C - Graphical Symbols for Use on Equipment

The Chairman of SC 3C, Dr. Y. Nakamura, reported in accordance with **Annex C**.

He added that it occurs that NWIPs form other committees or National Committees are not formally complete. The Secretary will therefore prepare some guidelines to follow for the preparation of NWIPs, with regard to application etc.

Mr Bergner pointed out that the taking over of ISO symbols should be considered to avoid double-standardisation. There should be no double numbering.

Mr Abel asked why the preparation of a common IEC-ISO standard has not been raised for graphical symbols for equipment, just as for graphical symbols for diagrams. Mr. Åkerberg supported.

Mr Bergner answered that the intention is to do the same. On the next meeting of ISO/TC145 this subject will be on the agenda.

Mr Bodin said that a problem is that the ISO symbols have no descriptions. When we take over ISO symbols in the IEC standard we do not change any description, we create them. We do not want to lose these descriptions!

It was noted that the rearrangement of IEC 417 will allow to include also ISO symbols in the proper context provided that they have proper descriptions.

Decision: ISO/TC145 was asked to start the work on descriptions and application texts to allow for a better future integration of the Standards.

VIII Report from the Chairman of SC 3D - Data Sets for Libraries of Electric Component Data

The Chairman of SC 3D, Dr. Radley, reported in accordance with document **Annex D**.

He noted also that Mr. van Noesel had taken over the work as Secretary close to the last meeting of SC3D. The resigning Secretary of SC3D, Mr Walther was given a warm applause.

IX Review of document 3(Secretariat)441 - Organisation of TC3 with Sub-Committees and Working Groups

The document 3(Secretariat) 441 was reviewed. A number of editorial remarks were made.

Decision: The document will be updated taking into account all results of the Rotterdam meeting and recirculated.

X Report from CCI-IEC Joint Working Group on Symbols and Diagrams

The Chairman of the CCI-IEC JWG, Mr. Reefman, reported in accordance with **Annex E**.

Closer co-operation with SC3C may be useful for the future. It was reported from SC3C that a liaison statement was formulated in May 92, but this had obviously not reached TC3.

Mr Abel raised the problem with a liaison with ETSI. Work in the symbols area are going on in ETSI. There are proposals sent out from ETSI which are not in line with IEC.

Decision: The Chairman was asked to approach ETSI through a letter, in order to see if and how a liaison could be established.

XI Report from IEC/TC3-ISO/TC10 JWG - Graphical symbols for Use in Technical Documentation of Products, and Documentation, including Item Designation

The Chairman of the IEC/TC3-ISO/TC10 JWG, Mr. B. Åkerberg, reported in accordance with **Annex F**.

The situation today is better than this report shows since the informal co-ordination meeting that was held 92-09-27. (See the report of SC3A.)

Mr Fornalski raised the question if a formal correction will have to be made in ISO since Part 1 ... Part 5 have been distributed as normal CDs, without any note that the intention is to publish them as Technical Report.

This question will have to be clarified with the Central Office.

XII Report from IEC/TC3-ISO/TC145 JWG - General Principles for the Creation of Graphical Symbols for Use in Technical Documentation of Products

The Secretary of the IEC/TC3-ISO/TC145 JWG, Mr. Bergner, reported in accordance with **Annex G**.

The question was raised if it is really possible, as it is proposed in the report, to proceed from the **IEC CD 3/3A(Secretariat)435/237 / ISO CD 11714** directly to a DIS considering the amount of comments given. Such a decision should anyway be taken by the involved committees and not by the JWG.

Decisions:

1. The compilation of comments on **IEC CD 3/3A(Secretariat)435/237 / ISO CD 11714**, with resolutions by the JWG should be circulated to the National Committees.
2. The revised document based on **IEC CD 3/3A(Secretariat)435/237 / ISO CD 11714** should be circulated as a **Committee Draft for Voting**.

In this context attention was drawn to Decision CA 38/1992 regarding the setting up of a Joint Ad Hoc Group to prepare procedures for the establishment of Joint IEC/ISO Co-ordinating groups and for the implementation of the results of their work.

XIII Report from IEC/TC3-ISO/TC184/SC4 JWG for electrical applications of ISO 10303 -Product data representation and exchange

Mr. Reuter, member of the IEC/TC3-ISO/TC184/SC4 JWG reported in accordance with **Annex H**.

He pointed out that the first CD for commenting will be distributed to the National Committees in the end of this year.

Experts revising the document will need knowledge of information modelling. The document is to be considered as a Requirement Specification on which the approval of the National Committees is need before the detailed elaboration of the standard.

XIV Discussion of document NWIP IEC 3(Secretariat)442 / ISO TC184 SC4 N116 - Electric/electronic application protocols

The Secretary reported on the result of the voting with reference to a meeting document.

Note: The Result of the Voting has later on been circulated as document **3(Secretariat)449**.

Mr Smith pointed out that US had approved the planning of theses projects, and not the listed Application Protocols (APs) specifically. The three APs overlap and they are not alone sufficient to cover the needs. He added that US would encourage an overall plan to be provided so that it could be seen what need to be done.

It was agreed that the NWIP was unclear, but on the other hand nobody expressed that they wanted to see the proposal redistributed for a new vote.

From the report of the JWG it was also clear that the listed three APs are not sufficient. From the three APs two common Integrated Application Resources (IARs) had been derived which were intended to be treated as separate projects.

Decision: The JWG is requested to produce an overall plan showing the whole need in this area.

The three listed Application Protocols, as well as the (two) Integrated Application Resources originating from them, are approved provided that they survive this replanning.

XV Discussion of document 3(Secretariat)443 - Strategic Policy Statement for TC3

Mr Hay introduced the Norwegian proposal for an **amended Scope of TC3**. (*For reference, see Annex L.*)

Mr Ikeda asked if it is possible to refer to a standard that in fact does not exist yet (ISO 10303), and Dr. Radley pointed out that traditional ways of documentation seemed to be overlooked.

It was concluded that a modification in the direction indicated by the Norwegian proposal was right to do, but the proposal had to be reworded.

Decisions:

1. It was agreed that the proposal should be further elaborated by the Secretary and then distributed to the National Committees for comments.
2. The Strategic Policy Statement will be updated based on the updated material coming from the different Sub-committees, and distributed together with the Report to the Committee of Action.

XVI Liaisons with other bodies

16.a IEC/TC16 Terminal markings and other identifications

It was noted that comments given at the last meeting regarding the use of ellipsis for range of values had been taken into account in the documents **16(Secretariat)331**, and was now incorporated in a CDV in preparation.

16.b IEC/TC44 Electrical equipment of industrial machines

It was noted that the classification code used in IEC 204 by TC44 should also be taken into account by SC3B/WG5 in its work on Letter codes for objects.

16.c IEC/TC52 Printed circuit boards

The Secretary reported on actions taken since the last meeting and the present correspondence.

The meeting supported the idea that TC3, TC52, and maybe TC93, together produce a document for circulation to the National Committees describing how the present IEC1182 is intended to be developed in order to make it harmonised with the future result of the work going on in the IEC/TC3-ISO/TC184/SC4 JWG.

16.d IEC/TC93 Design automation

The Secretary reported on activities related to TC93. The committee will have its first meeting in the end of October 1992 in Paris.

An ad hoc group consisting of the Chairmen and Secretaries of TC3, SC3B and SC3D had studied the draft Scopes and Strategic Policy Statement of TC93 carefully (documents **93(Secretariat) 1 and 2**), and proposed alterations and clarifications to be made in a meeting document.

The conclusion from the discussion of the meeting document was that the draft Scope, and especially the Strategic Policy Statement of TC93, indicates overlapping with TC3. However, if TC93 is focusing its work on the integration and also shows that clearly in the Scope and Strategic Policy Statement, it will be possible to draw a quite clear boarder line between TC93 and TC3.

Decision: The rather detailed document will be further elaborated and turned in to a more general comment from TC3, that will be forwarded to TC93 before its first meeting.

16.e ISO/TC10 Technical drawings, product definition and related documentation, with SCs

16.e.1 Programme of work

Document 3(Secretariat)445 Programme of work of ISO/TC10 was considered.

Decision: Document 3(Secretariat)445 should be forwarded to the IEC/TC3-ISO/TC10 JWG for the preparation of a list that shows those items for which IEC/TC3 participation is considered to be useful.

16.e.2. New Work Item Proposals

Documents 3(Secretariat)446 New work item proposals distributed in ISO/TC10 was considered.

Decision: Since a co-ordinated vote on the NWIPs is requested, the delegates of the National Committees were asked to contact corresponding National bodies of ISO/TC10, if they want to give their views on the proposals.

16.e.3 Structuring principles and reference designation

The conclusions from a meeting, intended to clarify the further procedures for the co-operation with ISO/TC10 in the field of Structuring principles and reference designations was presented as a meeting document. Due to the lack of official representative of ISO/TC10 at the meeting, the conclusions should be considered as proposals from the IEC side.

Decisions: The Secretary was asked to act in line with the proposal. i.e.:

- For the structuring principles: The Secretary should write to the Secretary of ISO/TC10 for further input of requirements to the CDV being prepared. If available before 22nd of March 1993 these will be taken into account in the CDV.

- For the letter codes for objects: The Secretaries of IEC/TC3 and ISO/TC10 should make arrangements for the setting up of a Joint WG on Requirements for Letter codes.

16.f ISO/TC184/SC4 - Industrial Data and Global Manufacturing Languages

This item was considered to have been fully covered by items XIII and XIV.

XVII Programme of future work, document 3(Secretariat)447

Decision: Document 3(Secretariat)447 should be updated based on the result of this meeting.

XVIII Other business

18.1 Terminology

It was noted that the decision of the last meeting had not been implemented. The Chairman therefore repeated the decision taken at that meeting.

Decision: The Secretaries of the Sub-Committees should prepare lists of terms defined within their own domain, including not only definitions in Standards, but also definitions and terms in working drafts, so that discrepancies are noted as early as possible.

These lists will be compiled by the Secretary of TC 3 and distributed within TC3. Further actions, for example together with TC1 will be decided on later.

18.2 Procedures

18.2.1. Late circulation

Several delegates expressed their dissatisfaction with the late circulation of the documents to be treated at the meeting. We should follow the rules, i.e. documents should be circulated 6 weeks before the meeting at the latest.

The US delegation had prepared a meeting document, appended to the minutes as **Annex J**.

The expressed concerns were generally accepted. One action, discussed already at the meeting of SC3B, will be that Requirement specifications should be used more at an early stage of a project. The Requirement Specification shall be circulated and agreed on before any more extensive work is started.

18.2.2. Distribution of documents by facsimiles

Mr Reuter presented the result of the test using faxes with reference to **Annex K**.

Decision: The Secretary was asked to forward the information on this test to the General Secretary.

18.3 Task force on technical documentation

The Chairman presented the Decision CA 10/1992 regarding the setting up of a task force for Technical documentation.

XIX Next meeting

The next meeting is planned to be held in the beginning of 1994.

There is no formal invitation available at the moment. The possibilities to have next meeting in Japan is being investigated.

XX Close of the meeting

The Chairman closed the meeting and thanked the delegates and Mr. Cordelier, for their contribution. Mr. Hay thanked, on behalf of the delegates, the Chairman for the able way in which the meeting had been conducted.

**Annex A Report from the Chairman of SC3A
Graphical symbols for Diagrams**

(pasted)

**Annex B Report from the Chairman of SC3B
Documentation**

(pasted)

**Annex C Report from the Chairman of SC3C
Graphical Symbols for Use on Equipment**

(pasted)

**Annex D Report from the Chairman of SC3D
Data Sets for Libraries of Electric Component Data**

(pasted)

Annex E Report from the Chairman of CCI-IEC JWG on Symbols and Diagrams

(pasted)

**Annex F Report from the Chairman of IEC/TC3-ISO/TC10 JWG
Graphical Symbols for Use in Technical Documentation of Products, and
Documentation, including Item Designation**

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Annex G Report from the Chairman of IEC/TC3-ISO/TC145 JWG General Principles for the Creation of Graphical Symbols for USe in Technical Documentation

Following the first meeting of the JWG 1991-03-20/22 in Plzen, CSFR, and the second meeting 1991-05-06/07 in Paris, the third meeting of IEC/TC3-ISO/TC145 JWG was recently held on 1992-09-28/29 in Rotterdam.

During the meeting document IEC/TC3-ISO/TC145 JWG N11 "Compilation and association of comments on the common texts of ISO CD 11714 and IEC 3/3A (Secretariat)435/237 "General principles for the creation of symbols for use in technical documentation of products" "was carefully considered and thus the basis for the manuscript for publication as DIS was elaborated.

Mr. Gorchkov, Senior Technical Officer of ISO/CS, who attended the meeting, informed the experts of the JWG that IEC/CO and ISO/CS decided that the common standard on the creation principles for symbols for use in technical documentation of products will be published under the common number ISO/IEC 11714.

The experts present agreed that the manuscript of the document for publication as ISO/IEC DIS 11714 be finalised until the end of 1992 and then be sent to ISO/CS and IEC/CO for publication.

The meeting was closed with a minute of memory on Mr Hartmut Spiess, a German expert of the JWG, who suddenly passed away in May of this year.

**Annex H Report from IEC/TC3-ISO/TC184/SC4 JWG for
Electrical Applications of ISO 10303 - Product Data Representation and
Exchange**

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**Annex J Comments of the US National Committee regarding the TC3 document
preparation and review process**

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Annex K Report from SC3B/WG2 concerning the use of facsimiles for the distribution of comments

(pasted)

Annex L List of meeting documents

<i>Number</i>	<i>Title</i>
3(Rotterdam/...	
Secretariat)1	List of Delegates
Secretariat)2	List of Meeting Documents <i>This Annex L.</i>
Secretariat)3	Report from the Secretary
SC3A)4	Report from SC3A - Graphical Symbols for Diagrams. <i>See Annex A.</i>
SC3B)5	Report from SC3B - Documentation. <i>See Annex B.</i>
SC3C)6	Report from SC3C - Graphical Symbols for Use on Equipment. <i>See Annex C.</i>
SC3D)7	Report from SC3D - Data Sets for Libraries of Electric Component Data. <i>See Annex D.</i>
CCI-IEC JWG)8	Report from CCI-IEC Joint Working Group on Symbols and Diagrams. <i>See Annex E.</i>
IEC/TC3-ISO/TC10 JWG)9	Report from IEC/TC3-ISO/TC10 JWG Graphical Symbols for Use in Technical Documentation of Products, and Documentation, including Item designation. <i>See Annex F.</i>
IEC/TC3-ISO/TC145 JWG)10	Report from IEC/TC3-ISO/TC145 JWG General Principles for the Creation of Graphical Symbols for Use in Diagrams. <i>See Annex G.</i>
IEC/TC3-ISO/TC184/SC4 JWG(9))11	Report from IEC/TC3-ISO/TC184/SC4 Joint Working Group for Electrical Applications of ISO 10303 - Product Data Representation and Exchange. <i>See Annex H.</i>
IEC/TC3-ISO/TC184/SC4 JWG(9))12	NWIP Resource model - Diagrams used in electrotechnology
)13	<i>Not used</i>
Norway)14	Proposal for modifications of the Scope of TC3
Norway)15	Proposal for modifications of the Strategic Policy Statement of TC3
USA)16	Comments of the U.S. National Committee regarding the TC3 document preparation and review process.
Secretariat)17	Result of voting on New Work Item Proposal 3(Secretariat)442 Electrical application protocols. <i>See RVNW 3(Secretariat)449.</i>
Secretariat)18	Coordination meeting 1992-10-06 between IEC/TC3-ISO/TC10 regarding work on Reference (Item-) designations.
Secretariat)19	Comments on the proposed scope of TC93.