



Secrétariat ISO/CEI JTC

Jeux de caractères et codage de l'information
Character sets and information coding

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ISO/IEC JTC 1/SC 2 N **2166**
Date : 1990-06-05

INFORMATION TO BE PROVIDED BY THE SUBMITTER

TITLE : Resolutions at 2nd SC 2 Plenary at Washington
(April 9-12, 1990)

SOURCE : Hiroshi Yasuda Convenor of ISO/IEC JTC 1/SC 2/WG 8

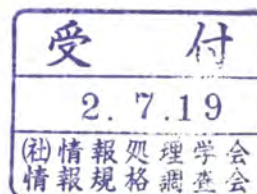
PROJECT :

INFORMATION TO BE PROVIDED BY THE SECRETARIAT

STATUS :

REQUESTED ACTION : For Information

DISTRIBUTION : P, O and L members
ISO Central Secretariat
JTC1 Secretariat
SC2 Chairman



Resolutions of 2nd SC2 Plenary at ~~Franco~~ Washington
(April 9-12, 1990)

Resolution No. 1 New Work Items

(U) 11

JTC1/SC2 recognizes the need to satisfy the requirements of other SCs (see SC2 N 2116) by undertaking work on new aspects related to character sets. JTC1/SC2 requires its National Bodies to submit corresponding proposals for NWIs.

Resolution No. 2 Convenor of SC2/WG2

(U) 11

JTC1/SC2 appoints Mr. M. Ksar (USA) for a 3-year term as Convenor of WG2.

Resolution No. 3A Multiple-octet code (DP 10646)

Approved

JTC1/SC2 instructs WG2

- to remove floating diacritical marks from the draft,
- to include the East Asian ideographic character sets as specified in their respective national standards,
- to allocate no graphic characters in the so-called C0/C1 space.

JTC1/SC2 resolves to progress DP 10646 to DIS status, and further instructs WG2 to prepare the DIS text to be sent to ITTF for DIS ballot.

17 YES Denmark, Germany, Italy, Japan, Korea, Netherlands, Switzerland
4 NO Canada, China, France, USA
1 Ab Sweden

Resolution No. 3B Multiple-Octet Code (DP 10646)

Denied

JTC1/SC2 instructs WG2

- to include, but not necessarily in the BMP, East-Asian ideographic (C/J/K) characters as specified in the relevant standards,
- to include, but not necessarily in the BMP, unified C/J/K characters,
- to allocate no graphic characters to the so called 'C0' space,
- to consider enlargement of the private-use area in the B.M.P.,
- to make such other changes to the current draft as may be required or desirable to implement the above points,
- to fill the C/J/K unified space by either input from CJK-JRG or input from CJK unification experts. WG2 shall make a decision between the above sources in the next five months.

to Resolution 3B
JTC1/SC2 resolves to progress DP 10646 to DIS status, and further instructs WG2 to prepare the DIS text to be sent to ITTF for DIS ballot.

4 YES Canada, China, France, USA
6 NO Denmark, Germany, Italy, Japan, Korea, Switzerland
2 Ab Netherlands, Sweden

Attachment 1.

Note (U) 11 Unanimous by 11 countries (The Netherlands absent)
(U) 12 Unanimous by 12 countries

Resolution No. 3C Multiple-octet code (DP 10646)

(U) II

JTC1/SC2 instructs WG2

•to insure that floating accents are available so as to fully meet the requirements of bibliographers and others who need them.

•to insure that usage of 'floating accents' in CC-data elements is required to be identified, so as to protect products and applications that do not support floating accents from inadvertently receiving and accepting them.

3 YES China, Canada, USA

4 No Denmark, France, Germany, Italy, Japan, Korea, Netherlands, Sweden, Switzerland

Resolution No. 4 DIS 646 - ISO 7-Bit Coded Character Set for Information Interchange

(U) II

JTC1/SC2 instructs its Secretariat to distribute the results of the vote on this DIS and the comments received not later than 30th August 1990. JTC1/SC2 further instructs SC2/WG3 to resolve the comments and finalize the text to be sent to ITTF for publication.

Resolution No. 5 DIS 4873 - 8-Bit Code for Information Interchange - Structure and Rules for Implementation

(U) II

JTC1/SC2 instructs its Secretariat to distribute the results of the vote on this DIS and the comments received not later than 30th August 1990. JTC1/SC2 further instructs SC2/WG3 to resolve the comments and finalize the text to be sent to ITTF for publication.

Resolution No. 6 DIS 10367 - Repertoire of Standardized Coded Graphic Character Sets for Use in 8-Bit Codes

(U) II

JTC1/SC2 instructs its Secretariat to distribute the results of the vote on this DIS and the comments received not later than 30th August 1990. JTC1/SC2 further instructs SC2/WG3 to resolve the comments and finalize the text to be sent to ITTF for publication.

Resolution No. 7 Revision of ISO 6937-1 and ISO 6937-2 (SC2 N 2093)

(U) II

JTC1/SC2 instructs its Secretariat to send document N 2093 for a 3-month letter ballot as first DP for the revision of ISO 6937-1 and ISO 6937-2. The results of the vote and the comments received shall be distributed by the 30th of August 1990.

JTC1/SC2 appoints Mr. G. Bernard as Project Editor for this project.

Resolution No. 8 Latin alphabet for the official languages of the EEC Member Countries (SC2 N 2104)

(U) II

JTC1/SC2 recommends that SC2 N 2104 be contributed to SC2/WG3 for consideration and action.

Resolution No. 9 Guidelines for Generating and Presenting Unique Names
of the Characters in SC2 Standards

JTC1/SC2 resolves

- to produce a list of unique names for all graphic and control characters of SC2 standards;
- to adopt document SC2 N 2122 as Guidelines for the generation and presentation of these names.

JTC1/SC2 would welcome a French version of this document by experts from the French-speaking countries.

Resolution No. 10 Appointment of the Members of the AG of the
Registration Authority for ISO 2375

JTC1/SC2 appoints

Mr. P. Dettmer (Germany)
Mr. T. Hastings (USA)
Professor E. Wada (Japan)

as members of the AG.

Resolution No. 11 Confirmation of ISO 2375, Procedure for the
Registration of Escape Sequences

JTC1/SC2 instructs its Secretariat to inform ITTF and the Secretariat of JTC1 that JTC1/SC2 supports confirmation of ISO 2375.

Resolution No. 12 Registration of Sub-Repertoires (ISO 7350)

JTC1/SC2

resolves to revise the scope of DIS 7350 to extend it to sub-repertoires of DIS 10367, ^{characters from}

JTC1/SC2 appoints Mr. G. Bernard as Project Editor for this project.

JTC1/SC2 requests the NCC, the Registration Authority for ISO 7350, to accept in the meantime, applications for sub-repertoires of ISO 6937-2 together with its addendum 1.

Resolution No. 13 Advisory Group for the Registration Authority for
ISO 7350

JTC1/SC2

Considering that the revision of DIS 7350 will include an additional clause establishing an Advisory Group for the Registration Authority, JTC1/SC2 already appoints:

Mr. M. Hasegawa (Japan)
Mr. B. Marti (France)
Mr. R. Peller (USA)

as members of the A.G.

Resolution No. 14 Control functions for text communication (SC2 N 2075)

JTC1/SC2

requests the Project Editors, Messrs. Bohn and Hekimi, to prepare the final text of DIS 10538, to be sent to ITTF for publication, taking into account the editorial comments received with the ballot letter.

11 Yes

0 No

1 Abstain

Resolution No. 15 Project Editors for WG1 through WG6

(U)₁₂

JTC1/SC2 appoints the following Project Editors:

ISO 646 : Mr. D. Hekimi
ISO 4873 : Mr. D. Hekimi
ISO 10367 : Mr. D. Hekimi
ISO 6937 : Mr. G. Bernard
ISO 7350 : Mr. G. Bernard
ISO 10646 : Mr. M. Hasegawa
ISO 10538 : Mr. W.F. Bohn
ISO 6429 : Mr. J. Friemelt

WG6 will have to nominate Project Editors for the two accepted new items of work for additional control functions for bi-directional texts, and for the multiple-octet code.

(as ballot for additional control functions)

Resolution No. 16

New Subcommittee ν Status for the current WG8

(Approved)

JTC1/SC2, considering that:

1. the standardization of the coded representation of picture, audio and multimedia information is considered to be one of the most important areas for standardization in the 1990's;
2. the work and scope of SC2/WG8 has expanded substantially beyond the scope of SC2;
3. the work of SC2/WG8 has developed into a critical mass significant enough to warrant SC status;
4. the work of SC2/WG8 has become difficult to manage from a numbers and complexity stand-point;

recommends to JTC1:

- A. to establish of a new JTC1 Subcommittee for the purpose of developing standards in the area of Coded Representation of Picture, Audio and Multimedia information;
- B. to transfer from SC2 to this new Subcommittee current work projects relevant to the the Coded Representation of Picture, Audio and Multimedia information;
- C. to establish a close liaison between the new Subcommittee and such other SCs as may be involved in areas related to the scope of the new Subcommittee, so that close coordination may be maintained between the activities of these groups.

11 YES: Canada, China, Denmark, Germany, Italy, Japan, Korea, Netherlands, Sweden, Switzerland, USA
1 NO France

0 Abs

Resolution No. 17

Redefinition/Restructure of WG8

(U)₁₂

JTC1/SC2, acknowledging the continued existence of WG8 and its related subgroups within SC2 pending action by JTC1 concerning the formation of a new SC, amends the terms of reference of WG8 and creates working group from its subgroups as described in SC2 N 2135.

Note: Underlined: WG8 related Recommendations

Resolution No. 18

Liaison statements from WG8 to CCITT, CCIR
ITU
and ANSI

JTC1/SC2 authorizes WG8 to send the liaison statements to CCITT, CCIR and ANSI prepared at the Tampere meeting of WG8.

Resolution No. 19

DP 9282-2 Incremental Coding

JTC1/SC2 instructs its Secretariat to transmit DP 9282-2 (SC2 N 1989 and N 2033) to ITTF for processing as a DIS under the combined voting procedure. The Project Editor, Mr. B. Trocherie is requested to provide the revised text to the SC2 Secretariat.

Resolution No. 20

Appointment of Convenors for the WGs specified in
N 2135

JTC1/SC2 appoints as Convenors for a 3-year term:

WG7: Mr. B. Trocherie

WG8: Dr. H. Yasuda

WG9: Mr. G. Wallace

WG10: Dr. H. Hampel

WG11: Dr. L. Chiariglione

WG12: Mr. F. Kretz

These appointments are subject to confirmation of support from their respective National Bodies.

Resolution No. 21

Working plans of the new WGs

JTC1/SC2 instructs the Convenors of WG7, WG8, WG9, WG10, WG11, and WG 12 to prepare and transmit to SC2 the following information:

- the identification of Project Editors,
- the identification of Liaisons,
- a three-year meeting schedule,
- a time scale for all projects.

Resolution No. 22

Registration Authority for ISO 9281-2

JTC1/SC2 appoints the following persons as members of the Advisory Group to the Registration Authority for ISO 9281-2.

Mr. H. Hagiwara (Japan)

Mr. B. Trocherie (France)

Mr. C. Touchton (USA)

Resolution No. 23

Coded Representation of Pictorial Information -
Compression/Decompression of Continuous Tone
Images (SC2 N 2128)

JTC1/SC2 instructs the Project Editor for this project, Mr. G. Wallace (USA), to edit document N 2128 for registration and DP ballot.

Resolution No. 24 SC24 NWI - Image Processing and Storage

①₁₂

JTC1/SC2 recommends that JTC1 National Bodies examine the SC24 NWI Proposal on Image Processing and Storage (SC24 N 427), and suggest to SC24 ways in which the NWI Proposal might be better focused, as JTC1/SC2 feels that the scope of the NWI as currently expressed in SC24 N 427 is far too broad.

Resolution No. 25 ISO/IEC Co-ordination meeting on image technology -
SC2 Representatives

①₁₂

JTC1/SC2 appoints:

- Mr. C. Touchton
- Mr. B. Marti
- Dr. H. Yasuda
- Mr. M. Nier
- Dr. L. Chiariglione

as its representatives to the Joint ISO/IEC Steering Committee meeting on Image Technology.

Resolution No. 26 Appointment of the JTC1 Member of the Joint ISO/IEC
Steering Committee on Image Technology

①₁₂

JTC1/SC2 nominates Dr. Hiroshi Yasuda (Japan), Convenor of SC2/WG8, as the JTC1 member of the Joint ISO/IEC Steering Committee on Image Technology. SC2 expresses its thanks to Mr. J. Frienelt, the previous JTC1 member, for his contributions.

Resolution No. 27 Liaison with JTC1/SC18/WG5

①₁₂

JTC1/SC2 instructs its Secretariat to send a liaison statement (SC2 N 2138) to JTC1/SC¹⁸/WG5 requesting closer co-operation in the area of control functions so as to maintain compatibility between ISO 6429 and ISO 8613-6.

Resolution No. 28 Liaison with JTC1/SC21/WG6

①₁₂

JTC1/SC2 appoints Mr. M. Hasegawa as its representative at the SC21/WG6 meeting of May 1990 in Seoul.

Resolution No. 29 Liaison with SC21/WG3 and SC22

①₁₂

JTC1/SC2 instructs its Secretariat to forward N 2114 as liaison statement to SC21/WG3 and SC22.

Resolution No. 30 Liaison with JTC1/SC28

①₁₂

JTC1/SC2 resolves to liaise with JTC1/SC28, in particular with regard to control functions for printers.

Resolution No. 31 Liaison Representatives

(U) 12
JTC1/SC2 appoints as liaison representatives:

to JTC1/SC18 : Mr. F. Kretz (WG3, WG5), Mr. J. Friemelt (WG5)
to JTC1/SC22 : Mr. J. van Wingen
to JTC1/SC24 : Mr B. Trocherie
to COM-VIII CCIIT SG VIII : Mr. J. Friemelt
to CCIIT SG VIII(Q9) : Mr. F. Kretz
to CCIIT SC.VIII(Q.16) : Mr. I. Sebestyen
to CCIIT SG XV : Mr. G. Morrisson
to CCIR JIWP10-CMTI/1 : Mr. Komly
to EBU V3 : Mr. Y.F. Dehery

Resolution No. 32 Request of the Vice Chairman for System Support

(U) 12
JTC1/SC2 requests its Secretariat to transmit to Mr. Sessler:

- the present structure of liaisons with other JTC1 Sub-Committees,
- the results of these liaisons.

Resolution No. 33 Appreciation to Mr. J. Andersen

(U) 12
JTC1/SC2 expresses its sincere appreciation to Mr. Jerry Andersen for his many contributions as Convenor of WG2, and looks forward to his continued participation in SC2's activities in the future.

Resolution No. 34 Appreciation to Mr. Q. Tran

(U) 12
JTC1/SC2 expresses its deepest appreciation to Mr. Quyen Tran for his long, persistent, and dedicated service as Secretary of SC2, and wishes him every success in his future activities.

Resolution No. 35 Appreciation to CBEMA

(U) 12
JTC1/SC2 wishes to express its appreciation to CBEMA for hosting this second Plenary meeting of JTC1/SC2. In particular it wishes to thank Mr. Jean-Paul Emard and his staff, Mmes. Judith Bailey, Lynn Barra, Barbara Bennett, Katrina Gray, Abby Handy, Kate McMillan, and Monica Vago, for their consistent and outstanding support. Special recognition is extended to Mme. Joanne Flanagan for her dedicated effort in planning and coordinating the Plenary's support.

Next Plenary October 8-10, 1991 Rennes
Next Plenary April 5-8, 1993 (Netherlands)

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION

ISO/IEC JTC1/SC2

ISO/JTC1/SC2/N 2135

SOURCE: SC2

TITLE: Redefinition/Restructure of WG8

At its second Plenary meeting in Washington, DC, JTC1/SC2 approved a resolution asking JTC1 to form a new JTC1 Sub-committee on Picture, Audio and Multi-Media Information to which the functions and activities of JTC1/SC2/WG8 would be transferred.

Pending the formation of this new SC, JTC1/SC2 approves a redefinition of the terms of reference of WG8, and raises WG8's subgroups to working group status, as follows:

Working Group Summary

Working Group 7 --~~*Computer Graphic Image Coding~~
Working Group 8 --- Coded Representation of Picture, Audio and Multimedia Information
Working Group 9 --~~*Bi-level Image Coding~~
Working Group 10 --~~*Photographic Image Coding~~
Working Group 11 --~~*Moving Picture Image Coding~~ and Associated Audio
Working Group 12 --~~*Multimedia and Hypermedia Information Coding~~

* Coding of

WG7 - Computer Graphic Image Coding

Area of Work:

Development of standards which specify basic encoding rules for representation of computer graphics information

Programme of Work:

- * Assign identifiers for picture coding methods for ISO 9281.
- * Serve as the responsible body in the development of colour encoding for use within other SC's.
- * Serve as the responsible body within ISO/IEC/JTC1 in the development of binary encoding for use with SC2 and other SC's in order to maintain consistency with each other.
- * Complete the set of standards dealing with picture encoding in a 7-bit or 8-bit environment (ISO 9282/1 and ISO 9282/2).
- * Maintain the standards on identification of Picture Coding Methods (ISO 9281/1, and 9281/2).

Project	#02.17.01	Information Technology - Coded Representation of Pictorial Information - Identification Mechanism
Project	#02.17.02	Information Technology - Coded Representation of Pictorial Information - Computer Graphic Images

WG8 - Coded Representation of Picture, Audio and Multimedia Information

Area of Work:

Coordination and planning for the development of standards involving the coded representation of:

- Photographic Images, including compression functions
- Bi-level Images, including compression functions
- Moving Picture Images, including compression functions
- Audio Information, including compression functions
- Multimedia Information, including Hypermedia
- Sets of Control Functions for use with pictures, audio and multimedia in interchange, control and processing

WG-9 - Bi-Level Image Coding

Area of Work:

To recommend standards for ISO/IEC JTC1/SC2 on the topics of progressive and/or sequential data compression/decompression for bi-level images. In the course of this work, new compression/decompression methods will be developed with special consideration on progressive build-up performance, so the scope of work includes evaluation of resolution methods used for the progressive image build-up in progressive compression/decompression.

Programme of Work:

- * Serve as the responsible body within ISO/IEC/JTC1 for recommending standards for the progressive and/or sequential compression/decompression of bi-level images.
- * Serve as the responsible body with ISO/IEC/JTC1 for recommending a set of standards for bi-level image reduction method used for progressive build-up in progressive image compression/decompression.
- * Evaluation of resolution reduction methods suitable for progressive bi-level image build-up in image compression/decompression contexts.

Project #02.17.04 Coded Representation of Pictorial Information
- Bi-level Images

WG-10 - Photographic Image Coding

Area of Work:

Formulation of a standard method for the compression and decompression of still-frame, continuous-tone, "photographic" (gray scale of colour and monochrome), digitized images capable of satisfying the essential needs of a wide variety of computer communications applications for photographic-type digital images, for subsequent recommendation by WG8 to ISO/IEC JTC1/SC2 and CCITT SG VIII.

Programme of Work:

- * Serve as the responsible body within ISO/IEC/JTC1 for recommending a set of standards consistent with the Area of Work.
- * consider various photographic image compression techniques proposed by participating experts, and to select from among these an appropriate method corresponding to the Area of Work.
- * Technically evaluate, within the limits of resources available to the participating experts, those aspects of the proposed techniques which are most relevant to the Area of Work.
- * Specify, as part of the recommended standard, an appropriate syntax and protocol for data representation and communications.
- * Specify verification tests for the selected method, so as to enable implementors to confirm functional correctness of their implementations.
- * Liaise and co-operate with related standardization bodies.

Project	#2.17.03	Coded Representation of Pictorial Information - Photographic Images
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WG-11 - Moving Picture Image Coding

Area of Work:

The development of international standards for the coded representation of moving picture images, associated audio, and their combination (moving pictures) when used for storage and retrieval on digital storage media (DSM).

Programme of Work:

- * Serve as the responsible body within ISO/IEC/JTC1 for recommending a set of standards consistent with the Area of Work.
- * Co-operate with other standardization bodies dealing with similar applications.
- * Consider requirements for interworking with telecommunications and broadcasting applications.
- * Consider requirements for interworking with other picture coding algorithms defined by other SC2 working groups.
- * Consider requirements for interworking with other moving picture coding algorithms defined by other standardization bodies.
- * Define methods for the subjective quality assessment of moving picture quality.
- * Assess characteristics of digital storage media targets for moving picture image coding standards.
- * Coordinate development of moving picture image coding standards taking into account the quality of coded media, effective implementation using current technology, and constraints from DSMs.
- * Propose standards for the coded representation of moving picture image information.
- * Propose standards for the coded representation of audio information.
- * Propose standards for the coded representation of information consisting of moving picture image and audio information in combination.

Project	#02.17.05	Coded Representation of Pictorial Information - Moving Picture Image Representation
	#02.21	Coded Representation of Audio Information

WG12 - Multimedia and Hypermedia Information Coding

Area of Work:

Development of standards which specify the coded representation of multimedia synchronization and hypermedia navigation information.

Programme of Work:

- * Consider requirements relevant to multimedia and hypermedia services.
- * Propose a method and corresponding coded representation for multimedia synchronization of component monomedia information and hypermedia navigation among multimedia information.
- * Consider requirements for interworking with telecommunications applications.
- * Consider requirements for interworking with other SCs applications (e.g., ODA).
- * Serve as a responsible body within ISO/IEC/JTC1 for recommending standards in the defined area of work.
- * Liaise and cooperate with related standardization bodies: where appropriate suggest extensions to multimedia and hypermedia of current work items and possibly propose new new items.
- * Follow AFNOR initiative (see document WG8 N915) by considering the extension of the work on multimedia and hypermedia information coding to Audio Visual Interactive applications (AVIs) and report on it.

Project #02.23 Coded Representation of Multimedia and Hypermedia Information



Sécrétariat ISO/CEI JTC

Attachment 3

Jeux de caractères et codage de l'information
Character sets and information coding

afnor

association française
de normalisation

ISO/IEC JTC 1/SC 2 N 2125

Date : April 9, 1990

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INFORMATION TO BE PROVIDED BY THE SUBMITTER

TITLE : Justification of New Subcommittee

SOURCE : SC2/WG8

PROJECT :

INFORMATION TO BE PROVIDED BY THE SECRETARIAT

STATUS :

REQUESTED ACTION : For consideration at the SC2 Plenary, April 1990

DISTRIBUTION : P, O and L members
ISO Central Secretariat
JTC1 Secretariat
SC2 Chairman

12/17

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
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ISO/IEC JTC1/SC2/WG8

CODED REPRESENTATION OF PICTURE AND AUDIO INFORMATION

ISO/JTC1/SC2/WG8 N971
March 21, 1990

SOURCE : Hiroshi YASUDA, Convenor of WG8

TITLE: Rationale for and Definition of the Proposal of a New Subcommittee entitled:
"Coded Representation of Picture, Audio and Multimedia Information"

I. Definitions

Audio : A time sequential representation of audible information. It may comprise, for example, a voice, a sound, a music or a combination of these.

Control Functions: the method or way to process or interact media.

Hipermedia : Extended or advanced form of Multimedia with more intelligent and more sophisticated interactions among component monomedia.

Multimedia : At its most basic level the term means the inclusion in a service or an application of two or more monomedia.

Picture : A bounded representation of visual information. It may comprise, for example, a photograph, a diagram or a chart with captions, or a combination of these. It may also comprise audio and/or animation data associated with the visual information.

II. Administration of a New Subcommittee

II.1 Title: Coded Representation of Picture, Audio and Multimedia Information

II.2 Scope of Work

The standardization for interchange of the following bit and byte coded representations of pictures, audio and multimedia information:

- Computer Graphic Images, Coding Principle Only
- Photographic Images, including a compressing function
- Bi-level Images, including a compressing function
- Moving Pictures, including a compressing function
- Audio Information, including a compressing function

- Multimedia information, including Hypermedia
- Sets of Control Function for use with pictures, audio and multimedia in interchange, control and processing

11.3 Members (Expected)

Canada, China, Denmark, Finland*, France, Federal Republic of Germany, Israel, Italy, Japan, Korea, The Netherlands, Sweden, Switzerland, United Kingdom, United States of America, Union of Soviet Socialist Republic

11.4 JTC1 Projects

- 02.17.01 Coded Representation of Pictorial Information
 - Identification Mechanism
- 02.17.02 Coded Representation of Pictorial Information
 - Coded Representation of Pictures
- 02.17.03 Coded Representation of Pictorial Information
 - Photographic Image Representation
- 02.17.04 Coded Representation of Pictorial Information
 - Bi-level Image Representation
- 02.17.05 Coded Representation of Pictorial Information
 - Moving Picture Image Representation
- 02.21 Coded Representation of Audio Information
- 02.23 Coded Representation of Multimedia and Hypermedia Information

11.5 Working Group Structure and Terms of Reference:

- Working Group 1 --- Coding of Bi-level Image
- Working Group 2 --- Coding of Photographic Image
- Working Group 3 --- Coding of Moving Picture Image and Associated Audio
- Working Group 4 --- Coding of Multimedia and Hypermedia Information
- Rapporteur ----- Coding of Computer Graphic Image

WG 1 - Coding of Bi-level Image

Area of Work:

To recommend standards for ISO/IEC JTC1 on the topics of progressive and/or sequential data compression/decompression for bi-level images. In the course of this work, holding the existing sequential compression/decompression methods in high regards, new compression/decompression methods will be developed with special consideration on progressive build-up performance so the scope of work includes evaluation of resolution reduction methods used for the progressive image build-up in progressive compression/decompression.

Programme of Work:

- * Serve as the responsible body within ISO/IEC JTC1 for recommending a set of standards for progressive and/or sequential compression/decompression of bi-level images.
- * Serve as the responsible body within ISO/IEC JTC1 for recommending a set of standards for the bi-level image reduction method used for progressive build-up in progressive image compression/decompression.
- * Evaluation of resolution reduction methods suitable for progressive bi-level image build-up in image compression/decompression contexts.
- * Liaise and co-operate with related standardization bodies, particularly with CCITT SGVIII.

Project #02.17.04 Coded Representation of Pictorial Information

- Bi-level Image Representation

Participating Countries --5: Finland, Germany F.R., Israel, Japan, USA

WG 2 - Coding of Photographic Images

Area of Work:

Formulation of a standard method for the compression and decompression of Still-frame, continuous-tone, "photographic" (gray scale of colour and monochrome), digitized images capable of satisfying the essential needs of a wide variety of computer and communications applications for photographic-type digital images, for subsequent recommendation to ISO/IEC JTC1.

Programme of Work:

- * Serve as the responsible body within ISO/IEC JTC1 for recommending a set of standards consistent with the Area of Work.
- * Consider various photographic image compression techniques proposed by participating experts, and to select from among these an appropriate method corresponding to the Area of Work.
- * Technically evaluate, within the limits of resources available to the participating experts, those aspects of the proposed techniques which are most relevant to the Area of Work.
- * Specify, as part of the recommended standard, an appropriate syntax and protocol for data representation and communications.
- * Specify verification tests for the selected method, so as to enable implementors to confirm functional correctness of their implementations.
- * Liaise and co-operate with related standardization bodies, particularly with CCITT SGVIII.

Project #02.17.03 Coded Representation of Pictorial Information

- Photographic Image Representation

Participating Countries--14: Belgium, Canada, Denmark, Finland, France, Germany F.R.
Israel, Italy, Japan, Korea, The Netherlands, Sweden,
UK, USA

Programme of Work:

- * Consider requirements relevant multimedia and hypermedia services.
- * Propose a method and corresponding coded representation for multimedia synchronization of component monomedia information and hypermedia navigation among multimedia information.
- * Consider requirements for interworking with telecommunication applications
- * Consider requirements for interworking with other SCs applications (e.g. ODA).
- * Serve as a responsible body within ISO/IEC JTC1 for recommending standards in the defined Area of Work.
- * Liaise and cooperate with related standardization bodies: where appropriate suggest extensions to multimedia and hypermedia of current work items and possibly propose new work items.
- * Following AFNOR initiative (see document ISO/IEC JTC1/SC2/WG8 N915) consider the extension of the work on multimedia and hypermedia information coding to Audio Visual Interactive applications (AVIs) and report on it.

Project #02.23 Coded Representation of Multimedia and Hypermedia Information

Participating Countries--8: Canada, France, Germany F.R., Italy, Japan,
The Netherlands, UK, USA

R P - Computer Graphic Images

Area of Work:

Development of standards which specify basic encoding rules for representation of computer graphics information

Programme of Work:

- * Assign identifiers for picture coding methods for ISO 9281.
- * Maintain the standards on Identification of Picture Coding Methods (ISO 9281/1, and 9281/2)
- * Serve as the responsible body in the development of colour encoding for use within other SC's.
- * Serve as the responsible body within both ISO/IEC JTC1 in the development of binary encoding for use within other SC's in order to maintain consistency with each other.
- * Complete the set of standards dealing with picture encoding in a 7-bit or 8-bit environment (ISO 9282/1 and ISO 9282/2)

Project #02.17.01 Coded Representation of Pictorial Information
 -Identification Mechanism

Project #02.17.02 Coded Representation of Pictorial Information
 -Coded Representation of Pictures

Participating Countries--5 : Canada, France, Germany F.R., Japan, Switzerland

II.6 Programme of Work

	Editor	DP	DIS	IS
02.17.02.02	RP	F	1990.4	1990.9
02.17.03	WG2	1990.7	1991.4	1991.11
02.17.04	WG1	1990.11	1991.7	1992.1
02.17.05	WG3	1990.11	1991.7	1992.1
02.21	WG3	1990.11	1991.7	1991.11
02.23.01	WG4	1991.6	1992.3	1992.10
02.23.02	WG4	1991.10	1992.6	1993.1

III. Justification

The increasing power of computers and the capacity of magnetic and optical storage devices and telecommunications and broadcasting networks, makes it possible to combine still pictures, sound and even video sequences with text, graphics and facsimile. Part of the value of this combination comes from being able to manipulate the information from these media in digital form. The demand for these media, in both single and multimedia forms, increases the need for standardization of their coded representation.

These standardization activities have been assigned to ISO/IEC JTC1/SC2 and SC2/WG8. Over the past few years, these activities have gathered both institutional and industrial attention, thus increasing the importance of the effort put into ISO/IEC JTC1/SC2/WG8.

In March 1990, a New Work Item on "The Coded Representation of Multimedia and Hypermedia Information" was approved and has been assigned to SC2 because of the clear relationship to the work on pictures and audio coding standards in SC2/WG8.

This NWI assignment and the increasing activity in WG8 indicates the great need and importance of the standardization in this field.

In order to show commitment of JTC1 to this important area and to authorise the work in this field, a new subcommittee should be established based on the activities of ISO/IEC JTC1/SC2/WG8.

From the nature of the activities, the new subcommittee should have substantial liaison with SC2. It should also have strong liaisons with SC18, SC21, SC23, SC24 and with the related standardization bodies of other TCs in ISO, IEC, CCITT, CMTT, CIE, EBU, SMPTE, IPTC and ETSI.