

CCITT SGXV
Working Party XV/1
Experts Group for ATM Video Coding

Document AVC-95
7 August 1991

SOURCE : Convenor of ISO/IEC JTC1/SC2/WG8 (Hiroshi Yasuda)
TITLE : Establishment of New SC29
PURPOSE : Information

To CCITT Experts Group for ATM Video Coding

Attached document is explaining recent organizational change in ISO/IEC JTC1 resulting in New SC29 establishment. SC29 will cover audio, visual and multimedia coding fields, which includes JPEG, MPEG and also MHEG. Thus the relations between your group and SC29 will have important meaning to both groups. As the convenor of SC2/WG8, I would like to thank your cooperation to the old mother WGs and also your kind and continuous cooperation.

END

Attachments

- 1) Establishment of SC29 (1 page)
- 2) JTC1 N 1421 (8 pages)
- 3) JTC1 N 1242 (2 pages)

JTC1 (Information Processing)

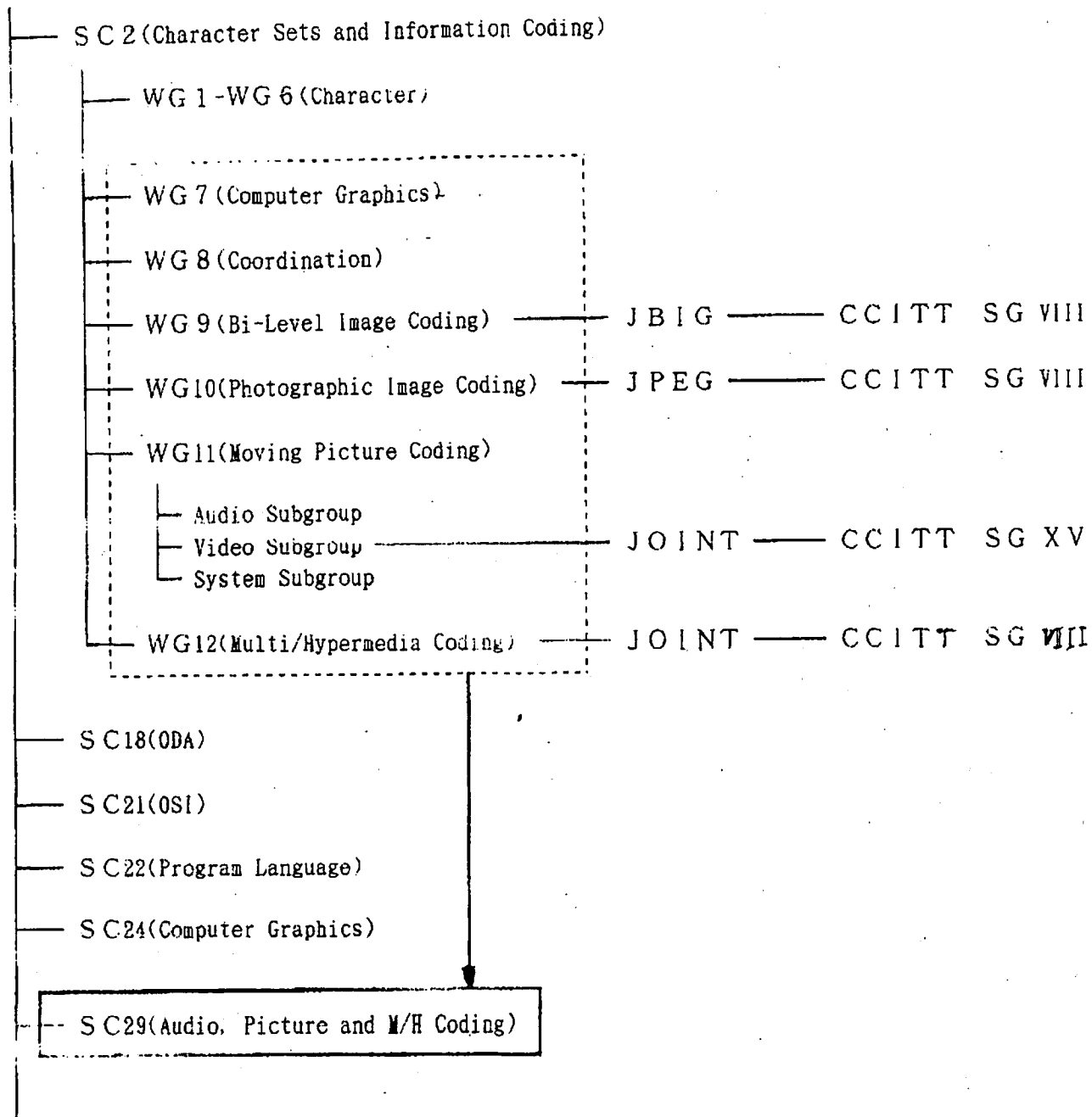
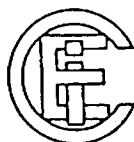


FIG. Establishment of SC29



ISO/IEC JTC 1 N 1421
Date: 1991-07-09

ISO/IEC JTC 1
INFORMATION TECHNOLOGY
Secretariat: USA (ANSI)

TITLE: Summary of Voting on Document JTC 1 N 1277, Letter Ballot Regarding the Establishment of JTC 1/SC 29

SOURCE: ISO/IEC JTC 1 Secretariat

PROJECT: --

STATUS: The proposal to establish SC 29 has been approved by a majority of the P-Members of JTC 1. Comments on the title, scope and programme of work of SC 29 will be referred to the JTC 1 Plenary Meeting in Madrid, 2-4 October 1991.

The JTC 1 Secretariat has been informed by the Japanese Secretariat that the first Plenary meeting of SC 29 will be held in Tokyo, Japan during the week of 18 November 1991.

REQUESTED ACTION: For review and discussion at the 2-4 October JTC 1 Plenary Meeting in Madrid, Spain.

DISTRIBUTION: P and L Members
SC 29 Secretariat

Address reply to:

Secretariat ISO/IEC JTC 1—American National Standards Institute, 11 West 42nd Street, New York, NY 10036

Tel: 212 642-4934, 212 642-4884; TX: 42 42 96 ANSI UI; FAX: 212 398-0023

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Voting Summary of JTC 1 N 1277 - Formation of SC 29

'P' Members	Approve	Approve with Cmts	Disapprove	Abstain	Membership Status	Comments
Australia	X				P	
Austria	X				O	
Belgium	X				O	
Brazil	X				P	
Canada	X					
China	X				O	
Cuba						
Denmark	X				Not indicated	
Finland						
France			X		P	Attachment 1
Germany	x				P	
Hungary	X				O	
Ireland	X				Not indicated	
Italy	X				P	
Japan	X				P	
Korea, Republic of	X				P	
Netherlands	X				O	
Sweden	X				P	
Switzerland	X				P	See Below *
United Kingdom		X			P	Attachment 2
USA	X				P	
USSR	X				P	
SC 18						Attachment 3

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French Comments on Document JTC 1 N 1277
Title, Area of Work, Programme of Work and Liaisons for SC 29

France disapproves the establishment of SC 29. See JTC 1 N 1234 (Page 2) and JTC 1/SC 2 N 2100.

ISO/IEC JTC 1 N **1234**
Date: 1991-02-26

SOURCE : AFNOR (FRANCE)

Page 2

SUBJECT : FRENCH POSITION ON THE SPLITTING OF SC2

SC 2 : "Character sets and information coding", is the only SC within JTC 1 in charge of codings.

That uniqueness is, in French views, to be considered as an advantage by the fact it should be :

- a guaranty for the coherence between the standards in the coding area and,
- helpful to the users of these standards by providing a single address for both to express new requirements and check if they are satisfied.

We recognise that today the majority of SC 2 experts is dealing with audio and image information, we also note that the current developments in that area are driven by technology and the presently exploding market requirements this explains the huge number of interested experts.

As it is foreseeable that further activity will be diverted towards multimedia and hypermedia, that is to say to SC 18; France is giving priority to the coherence between standards of coding, and is opposed to the creation of a supplementary SC which will make more complex the liaisons required to solve any coherence issue in that domain.

Source : AFNOR
Title : Proposal for reorganization of SC2

SC2 is presently dealing with character sets and their coding on one side and information coding for other media on an other side. Globally, the part dedicated to the study of characters is organised into 4 WGsgathering in their whole between 30 and 40 experts¹. The second part is the task of WG8 the plenaries of which may gather over 150 experts.

As this is unmanageable as such, and as the interests of experts may be specific to one of the information media considered, WG8 has been organised internally into experts group (see fig. 1) with 20 to 50 experts. One exception is CGEG with only two experts, the problem of which has to be solved specifically.

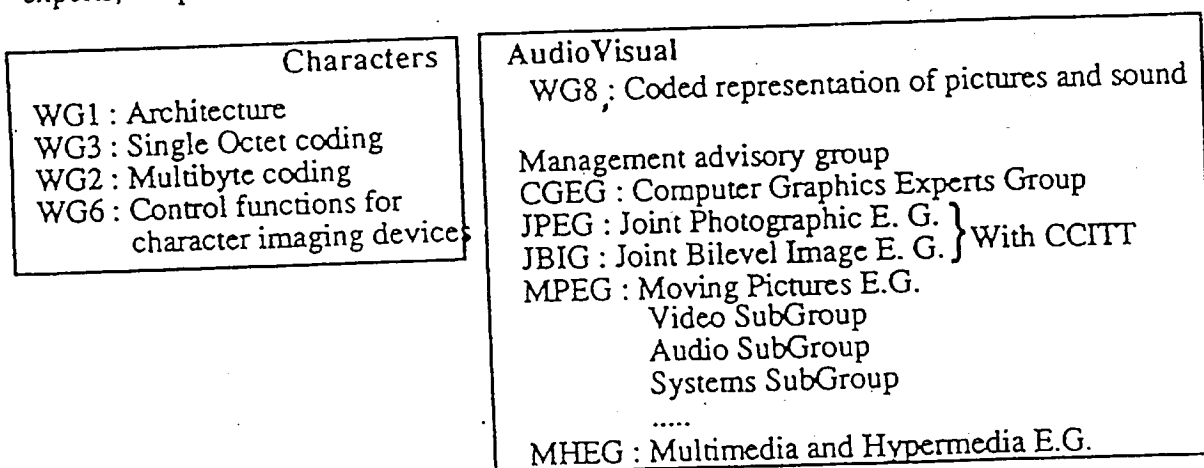


Fig. 1 : Present structure of JTC1/SC2

A first proposal has been made by the convenor of WG8 to promote this later as a new SC. AFNOR is not in favour of this solution because the commonality between coding architectures should be enhanced and not left besides. It is true that the present structure does not ease communication between the 2 blocs. One is living under the hat of ISO 2022 while the other is using the architecture defined in DIS 9281. Nevertheless doors between these two standards already exist and the maintenance of the coherence of the full coding architecture, which is still not perfect, requires a better communication between the two boxes of present SC2. Besides that, new applications using several types of contents simultaneously are emerging (ODA, multimedia, hypermedia, ...) and simultaneous use of textual and audiovisual informations makes mandatory to have a global view, a coherent strategy in the coded representation of the information.

¹ The last WG3 meeting gathered 10 experts and the subsequent WG1 meeting was attended only by 4 people.

Therefore AFNOR proposes the following organisation :

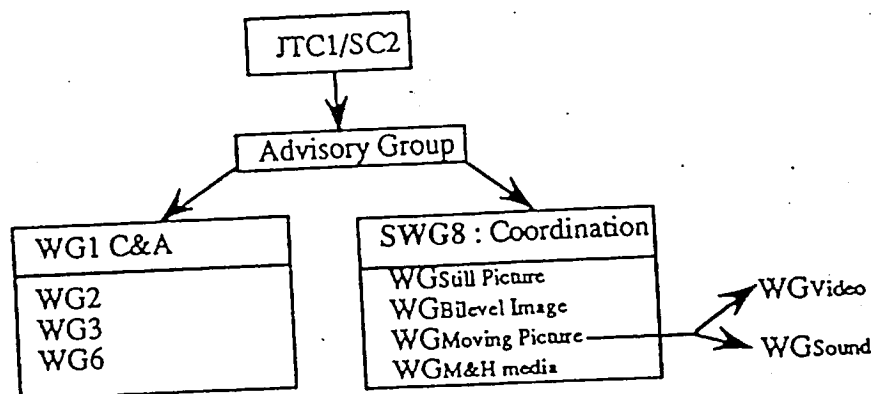
- creation of an advisory group for overall coding architecture and coherence between standards,
- promotion of WG8 expert subgroups to the WG level,
- transformation of present WG8 level into a special working group in charge of the coordination and architectural problems of coded representation of audiovisual information (i.e. pictures, sounds and their combinations)
- clarification of the status of WG8/CGEG and
- clarification of the tasks of other EG, becoming WGs.

These two later points require an explanation :

For the first one, a share of task between SC2 and SC24 has been decided at the Berlin meeting, three years ago. SC24 deals with functional definitions and SC2 with coding. The fact was that experts in computer graphics are more interested in functional definitions and SC2/WG8/CGEG progressively lost his experts which are only two left. To draw all the consequences of this situation, although it is highly unfortunate but could have been predictable, the best is now to transfer the whole set of standards on Computer graphics to SC24, with the condition that the coded representation should follow SC2-defined rules and their conformance to these rules be assessed by SC2 through some liaison mechanism

On the other side, and to avoid further problems of the kind, it is highly desirable that the scope of present SC2/WG8 (in its future structure) includes the task of gathering application oriented requirements for what concerns the coded representation of picture, sound and their extensions to multimedia or hypermedia information. This task is, in fact, already considered in various Expert Groups of WG8 : the various application-oriented requirements are one of the basis of comparison parameters used in algorithm assessments for their choice. This reality should be reflected in the mandates of the proposed new WGs and, therefore, in the mandate of SC2.

The proposed new organisation is as follows :



C&A:= Coordination+Architecture

Fig. 2 : Proposed new structure.

The figure shows that the WG on moving Pictures could be splitted in a WG dealing with the coded representation of Video Images and a WG in charge of the coded representation of sound. If necessary, the task of providing the necessary control functions for the coded representation of audiovisual sequences, which are generally composed of synchronised video and sound signals, could be given either to the Video

group or to a WG on control functions for photographic imaging devices (a paraphrase of ISO 6429 title...)

Mandate of the Advisory Group should include the coding architecture policy and some coordination between groups having common techniques or common interests. This group should also be involved in the definition of the new areas of work of interest for SC2, in relationship with the users of SC2's work. In the area of character sets for instance, SC2 has been requested, quite often and up to now in vane, to take some interest on subjects such as sorting methods, collating sequences, character attributes and classes, ... The AG should also, in the course of development of new areas of work, prepare organisational schemes for SC2, e.g. proposing new *branches* of the structure. As a matter of example, if the work on audiovisual interactive scriptware is allocated to SC2, this could become a new branch and the WG8 branch would take care of audiovisual basic media.

While the working groups could be composed mostly of technical experts, it is necessary that the members of both AG and WG8 be designated explicitly either by member bodies or by SC2 plenary in order to give these groups the possibility to take decisions (to be endorsed by SC2 at a later stage) on how to handle DPs and NWIs as necessary (in this sense, WG8 is a *Special Working Group* and could be designated as SWG8).

The mandate of this SWG8 should include : coding architectures and strategies for audiovisual media (which here is intended to be a generic term for information containing picture or/and sound), distribution of topics to WGs underneath, handling of DPs and NWIs in the area of audiovisual information coding, work on application requirements for audiovisual information in relation with users (such as SC18, SC24 or CCITT)

This reorganization, together with the necessary account to be taken by SC2 of user requirements as quoted above, is aimed at promoting the SC2 activities so as this SC becomes an uncontested and inavoidable service provider in the area of the coded representation of the information, which is a basis of all information processing area.

U.K. Comments

The UK has reviewed the proposals for SC 29 in the light of the report of the JTC 1 ad hoc TSG on multimedia and hypermedia (JTC 1 N 1161) and recommends the following changes:

1. Change the title to

'Coded representation of picture, audio, and final form multimedia/hypermedia objects'.
2. In the area of work
 - (a) Replace bullet 6 by

'Final form multimedia/hypermedia objects for real-time interchange in minimal resource environments'.
 - (b) Add at the end of bullet 7

'(encoding only)'
3. In the programme of work
 - (a) Allocate work items 1.02.17.01 and 1.02.17.02 (and subsequently the maintenance of ISO/IEC 9281 and 9282) to ISO/IEC JTC 1/SC 24 'Computer graphics'.
 - (b) Replace the title of work item 1.02.23 by

Final form coded representation of multimedia/hypermedia objects for real-time interchange in minimal resource environments'.
 - (c) Add at the end of the list

'Note. SC 29 should also contribute to the development of the multimedia/hypermedia model and framework in JTC 1/SC 18'.
4. In liaison organizations, add ISO/TC 130 'Graphic technology' to the internal JTC 1 liaisons listed in 4.1), bullet 2.

JTC 1/SC 18 Comments

ISO/IEC JTC 1/SC 18 N **2989**
1991-05-07

From : SC18
To : JTC 1
Subject : JTC1 N1242

SC18 recommends the following changes to the title, area of work, and list of program of work proposed for SC29.

NOTE : These recommendations are consistent with the intent of JTC1 N1161, recommendation 9.

I. Title

change to : Coded representation of picture, audio, and final form multimedia/hypermedia objects.

II. Area of work

Item 6 - change to :

Final form multimedia/hypermedia objects for real-time interchange in minimal resource environments

Item 7 - add : (encoding only)

III. List of program of work

1.02.23 change to :

Final form(Same as II. item 6)

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ISO/IEC JTC 1 N 1242

Date: 1991-02-26

ISO/IEC JTC 1
INFORMATION TECHNOLOGY
Secretariat: USA (ANSI)



TITLE: Proposed Title, Area of Work, List of Programme of Work and Liaison Organizations of a New JTC 1 Subcommittee (i.e., SC 29)

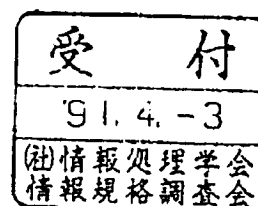
SOURCE: National Body of Japan

PROJECT: --

STATUS: This document was presented, reviewed and discussed at the 19-21 February meeting of the JTC 1 Advisory Group, Washington, D.C., USA.

REQUESTED ACTION: In accordance with Resolution 14 of the JTC 1 Advisory Group Meeting (Reference N 1262) this document deals with the formation of SC 29. This document should be taken into consideration when balloting Document N 1277.

DISTRIBUTION: P and L Members
Advisory Group Members



Address reply to:

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Title, Area of Work, List of Program of Work and Liaison Organizations of New SC

1. Title:

Coded representation of picture, audio and multimedia/hypermedia information

2. Area of Work:

Standardization of coded representation of:

- Computer graphic images (Coding principle)
- Bi-level images, including compression functions
- Photographic images, including compression functions
- Moving picture images, including compression functions
- Audio information, including compression functions
- Multimedia information, including hypermedia (Real time interchange of final form information)
- Audio Visual Interactive Scriptware
- Sets of control functions for use with pictures, audio and multimedia in interchange, control and processing

3. List of program of work:

Initially,

- 1.02.17.01 Coded representation of pictorial information - Identification mechanism (ISO 9281-1 and 9281-2)(now SC 2/WG 7)
- 1.02.17.02 Coded representation of pictorial information - Computer graphic images (ISO 9282-1 and DIS 9282-2)(now SC 2/WG 7)
- 1.02.17.03 Coded representation of pictorial information - Photographic images (now SC 2/WG 10)
- 1.02.17.04 Coded representation of pictorial information - Bi-level images (now SC 2/WG 9)
- 1.02.17.05 Coded representation of pictorial information - Moving picture image representation (now SC 2/WG 11)
- 1.02.21 Coded representation of audio information (now SC 2/WG 11)
- 1.02.23 Coded representation of multimedia and hypermedia information (Real time interchange of final form information) (now SC 2/WG 12)
- 1.02.xx Coded representation of Audio Visual Interactive Scriptware

4. Liaison Organizations:

1) Internal

- Within JTC 1
 - SC 11, SC 15, SC 18, SC 21, SC 23, SC 24 and particularly SC 2 for coding coordination
- Other TCs of ISO and IEC
 - Related TCs such as IEC/TC 60 and IEC/TC 84

2) External

CCITT, CCIR, CMTT, CIE, EBU, SMPTE, IPTC and ETSI

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