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INTERNATIONAL  
ELECTROTECHNICAL  
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# Introduction of IEC TC 100 to ISO/IEC JTC 1

**Audio, video and multimedia systems and equipment**

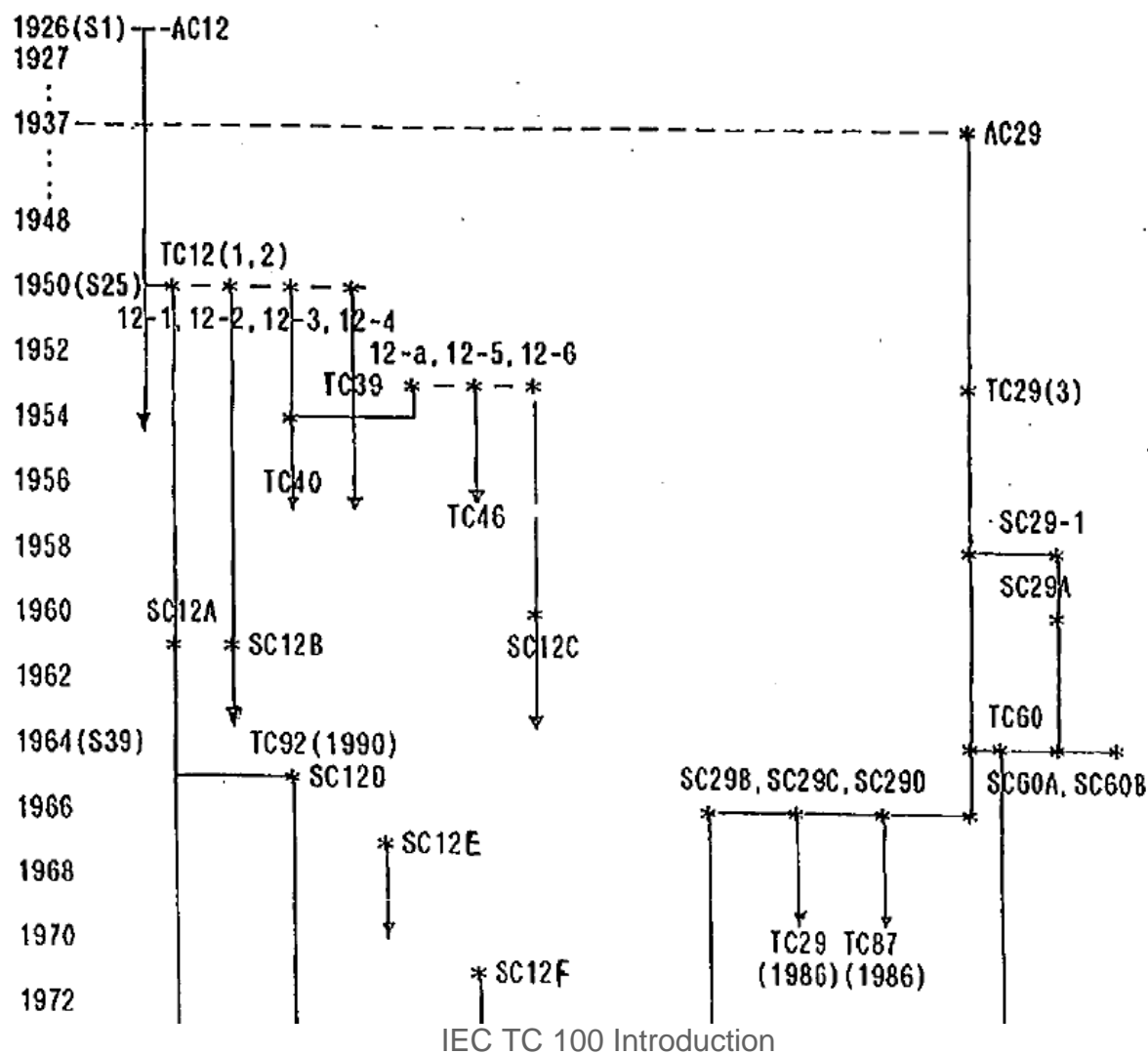


**Shuji Hirakawa**  
**Secretary of**  
**IEC Technical Committee 100**  
**10 November 2008**

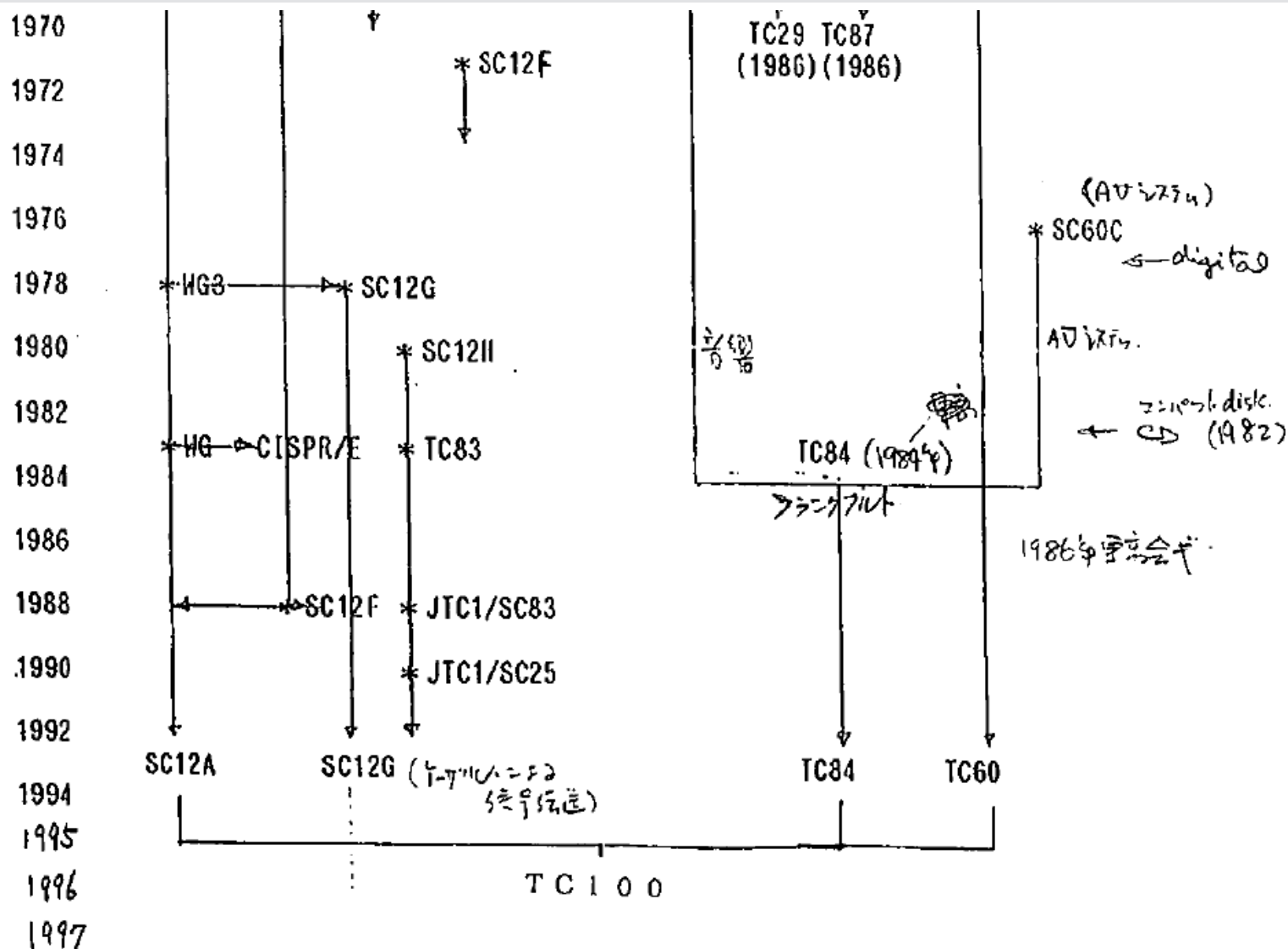
- 1. Introduction and history**
- 2. TC 100 Structure**
- 3. Scope and overview of work**
- 4. Working mechanism**
- 5. Efficient working procedures**
- 6. Collaboration with other SDOs**
- 7. National Committees**
- 8. TV Power Consumption, etc**
- 9. Recent and future meetings**

- **TC 100 Chairman (US NC)**
  - Mr. Mark Hyman
  - His term of office was extended until October 2010
- **TC 100 Secretariat: Japan NC (Since 2004/01/01)**
  - **Secretary:**  
Dr. Shuji Hirakawa (Toshiba)  
He is also in charge of an ITU-R Working Party 6B
  - **Assistant Secretaries:**  
Mr. Tadashi Ezaki (Sony)  
Mr. Norimasa Minami (Panasonic)

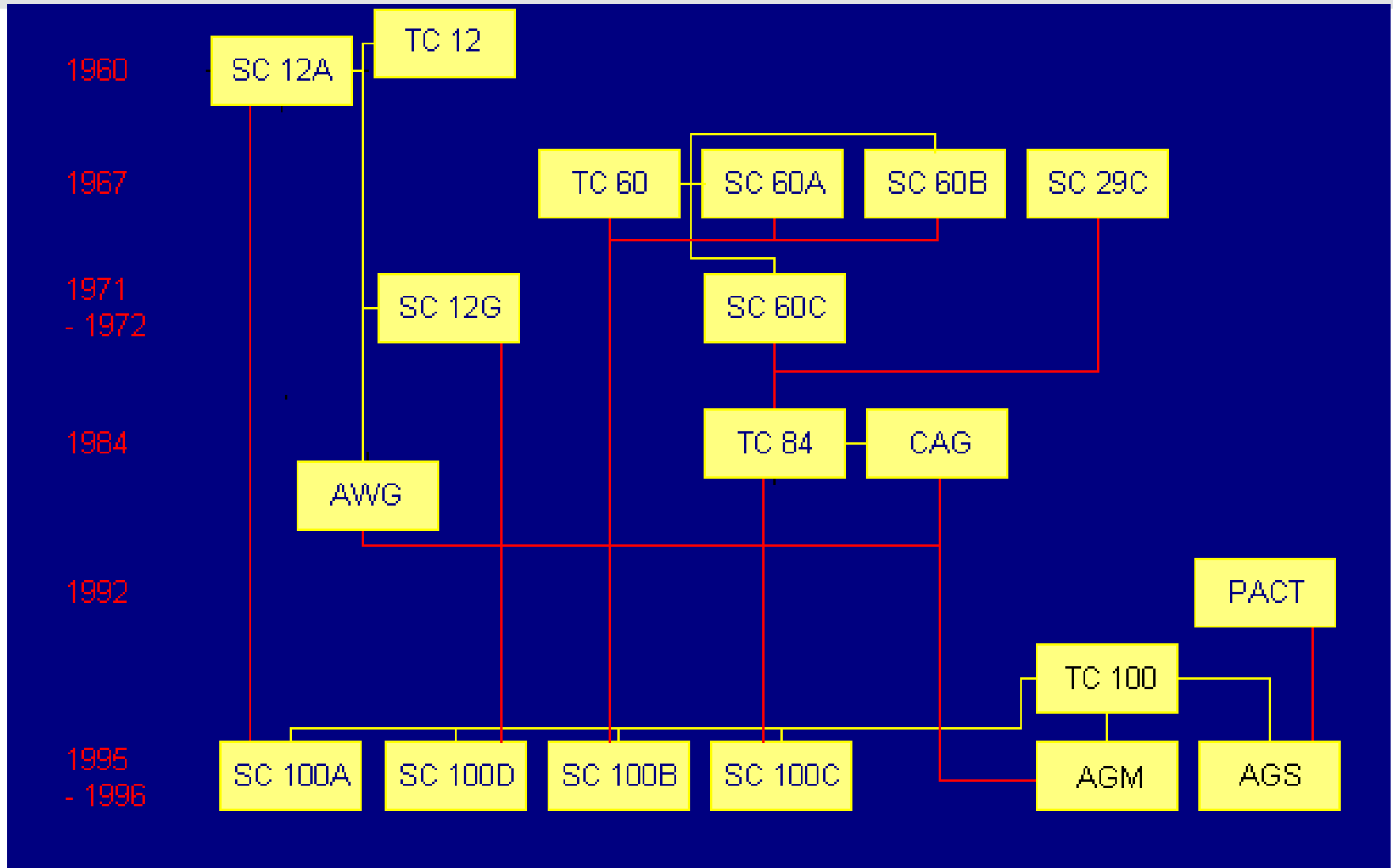
## IEC / TC 100 設置経緯



# History provided by Prof. Ikeda (2)



# History of TC 100 provided by former Sec.



- To prepare international publications in the field of audio, video and multimedia systems and equipment.  
These publications mainly include specification of the performance, methods of measurement for consumer and professional equipment and their application in systems and its interoperability with other systems or equipment

**NOTE:** multimedia is the integration of any form of audio, video, graphics, data and telecommunication and integration includes the production, storage, processing, transmission, display and reproduction of such information

- TC 100 covers both 'Systems' and 'Products'
  - TC 100 addresses both consumer and professional electronics
- TC 100 URL: [http://tc100.iec.ch/index\\_tc100.html](http://tc100.iec.ch/index_tc100.html)



- **TC100 addresses both consumer and professional electronics**
- **Audio, video, graphics, data and telecommunications**
- **Production, storage, processing, transmission and display**
- **Includes the specification of the performance, methods of measurements, application in a system environment**
- **How they interoperates with other systems or equipment**

# AV & Multimedia Systems and Equipment

**Professional**

IEC 61016 (D1)  
IEC 61189 (D2)  
IEC 62071 (D7)  
IEC 62141 (D16)  
IEC 62289 (D10)  
IEC 62336 (D11)  
IEC 62330 (HD-D5)  
IEC 62447 (D12)  
IEC 62261 (TV Metadata)

IEC 62360 (ISDB)  
IEC 62216 (DVB)  
IEC 62002 (DVB-H)

IEC 60728 series  
(Cable system)

IEC 60268-5  
(Loudspeaker)

IEC 60107 series  
(TV)

IEC 61883  
(Digital AV I/F)

IEC 60315 series  
(Radio)

IEC 62229  
IEC 62448  
(e-Book)

IEC 60908 (CD)

IEC 61909 (MD)

IEC 61606-4  
(PC audio)

IEC 61606 series  
(Audio measurement)

IEC 60958, 61937  
(Digital Audio I/F)

IEC 60268 series  
(Audio System)

IEC 61966 series  
(Color management)

IEC 62389  
(DVD player  
measurement)

IEC 61834 series  
(DV format)

IEC 62318, 62328  
(Multimedia  
Home server)  
IEC 62227  
(DRM)

IEC 61603 (IR)

- **10 TAs currently**
  - New TA 11 for Quality of Multimedia Information was established in Oct. 2007
- **General Maintenance Team (GMT) Responsible for the maintenance of work within TC 100**
- **Advisory Group on Management (AGM) of the Committee**
  - TC and TAs management teams
- **Advisory Group on Strategy (AGS)**
  - It works as an incubator of new standardization areas
- **Projects (PJs) - directly under TC 100**

**Chairman: Prof./Dr. Yushi Komachi (JP)**

- **Discusses and recommends TC 100 future technologies to be standardized**
  - **Incubating new standards.**
- **Discusses and recommends new structure and procedure for efficient development of International Standard**
- **Same level function as Sector Board and report to SMB directly**

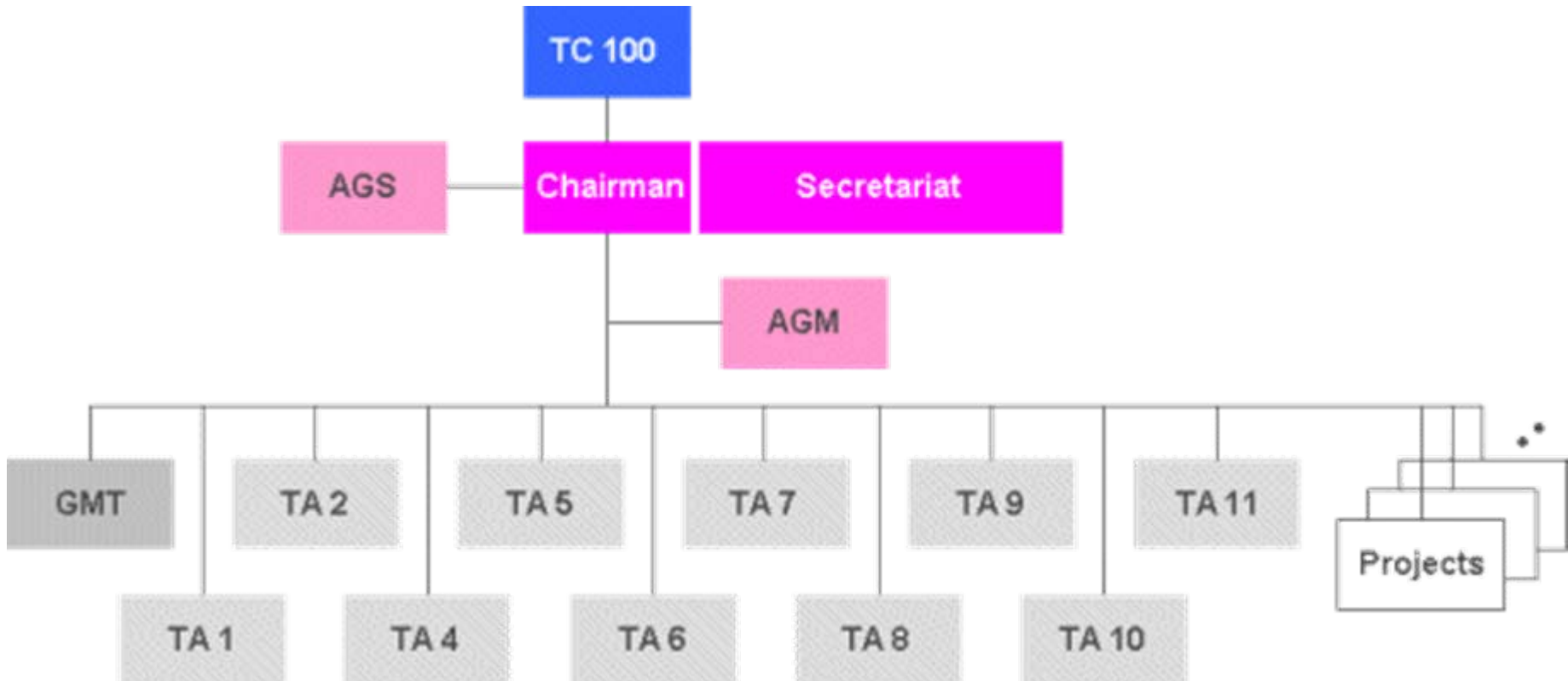
## **Chairman: TC 100 Chairman**

- **Discusses and recommends TC 100 managing issues**
- **Decides allocation of project and application of TC 100 Fast Standardization Procedure**
- **Coordination and information exchange among TAs and Projects**

# TAs and their titles

- TA 1: Terminals for audio, video and data services.
- TA 2: Colour measurement and management.
- TA 4: Digital system interfaces and protocols.
- TA 5: Cable networks for television signals, sound signals and interactive services
- TA 6: Higher data rate storage media, data structures and equipment.
- TA 7: Moderate data rate storage media, equipment and systems.
- TA 8: Multimedia home server systems.
- TA 9: Audio, video and multimedia applications for end-user network
- TA 10: Multimedia e-publishing and e-book
- TA 11: Quality for audio, video and multimedia systems

# Figure of Current TC 100 Structure



- **TC 100 - Operates in Project Teams (PTs) that are related to the technology or applications**
- **PTs report to the respective Technical Areas (TAs)**
- **Technical areas have Technical Area Manager (TAM) and Technical Secretary (TS)**



- **TC 100 has its own ‘Guidelines and Procedures’**
  - **Current document is 100/1180/INF**
  - **Special criteria for NP**
    - **Experts (including PL) should be from at least 2 NCs under 2/3 majority of votes**
  - **English only working documents circulation**
  - **TC 100 Fast Standardization Procedure**
    - **Allows 1 month NP approval in AGM and successive 5 months CDV for publication**
    - **In this case, Experts (including PL) should be from at least 4 NCs.**

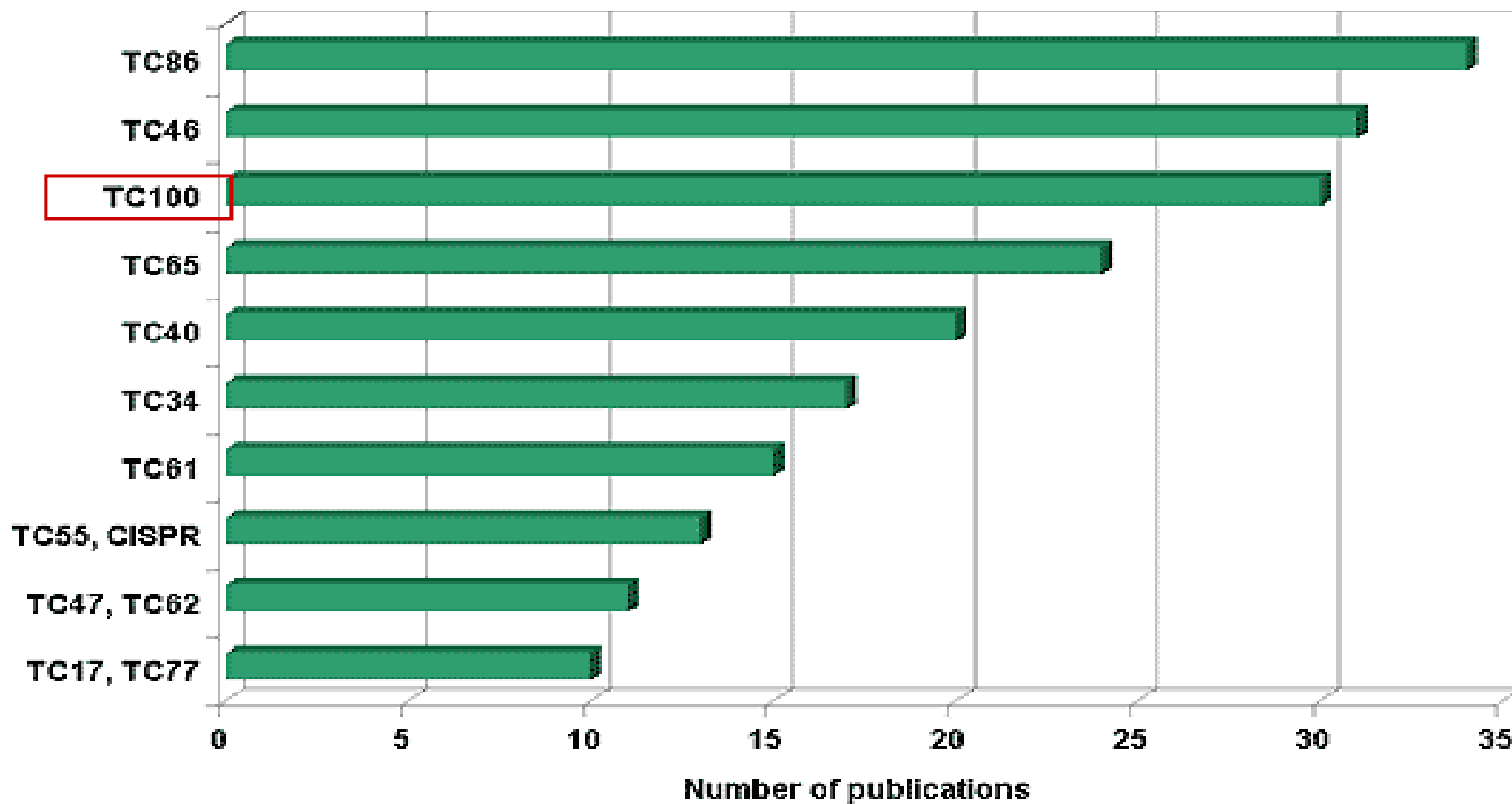
- For example, two DLNA Specifications were approved as IEC 62481-1 and -2 without negative voting using this procedure
- In this case, it took 7 months after AGM Helsinki meeting in May 2006 for the final approval on December 15, 2006

- **Statistics on the work accomplished by TC 100:**
  - Number of standards developed in the last 7 years: 143
  - Current activity: 80 active projects including 1 Validation Team for data-base standard (62261) and 1 stage 0 (Accessibility)

| Year | Number of Publications | Developing Period (Month) |
|------|------------------------|---------------------------|
| 2001 | 20                     | 50                        |
| 2002 | 14                     | 40                        |
| 2003 | 33                     | 25                        |
| 2004 | 14                     | 24                        |
| 2005 | 29                     | 30                        |
| 2006 | 12                     | 24                        |
| 2007 | 21                     | 26                        |

# 2005 Publications produced

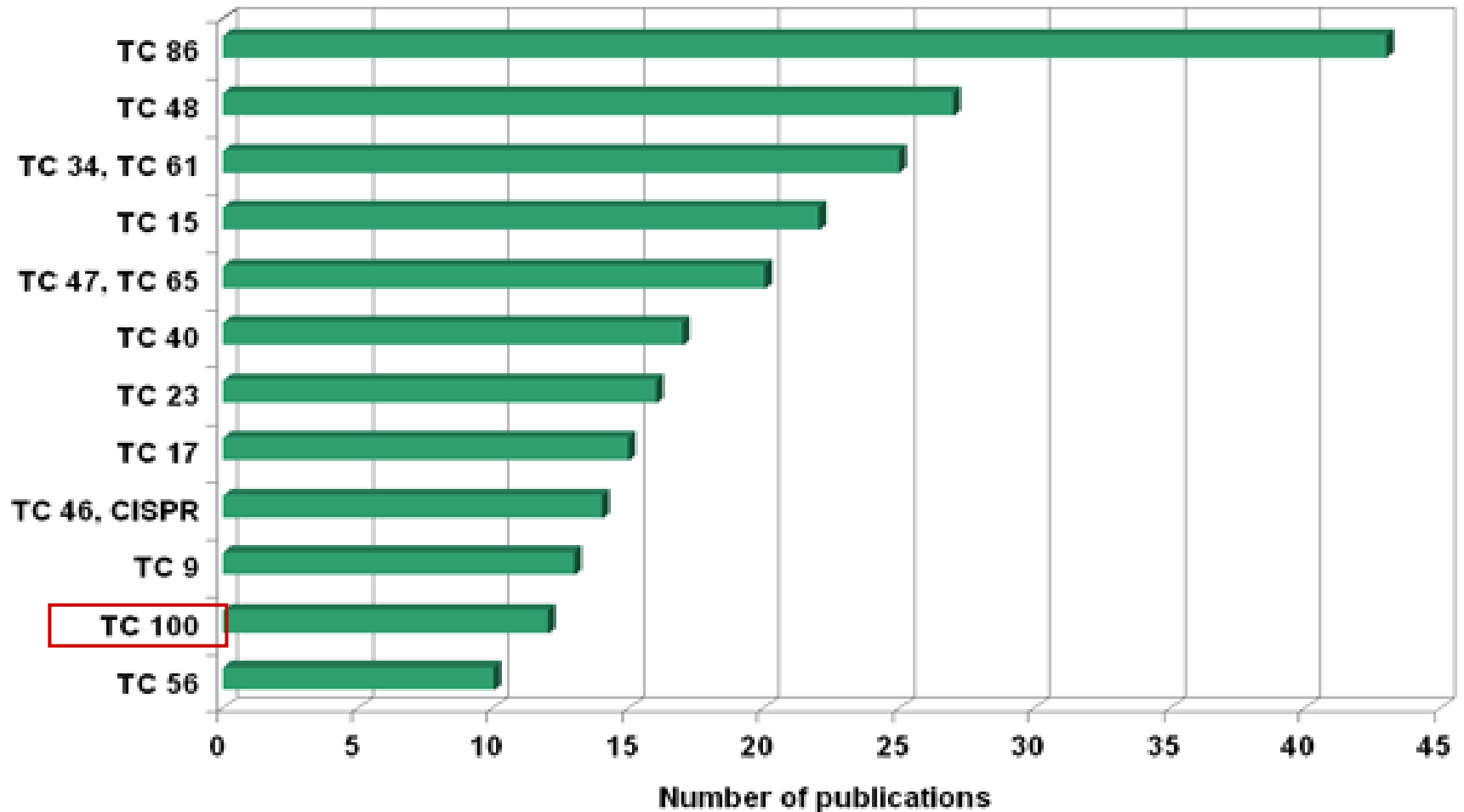
TCs producing 10 or more publications



TC86 (Fibre optics) led the way in 2005, 10 IEC TCs along with CISPR (International Special Committee on Radion Interference) produced 10 or more publications in 2005.

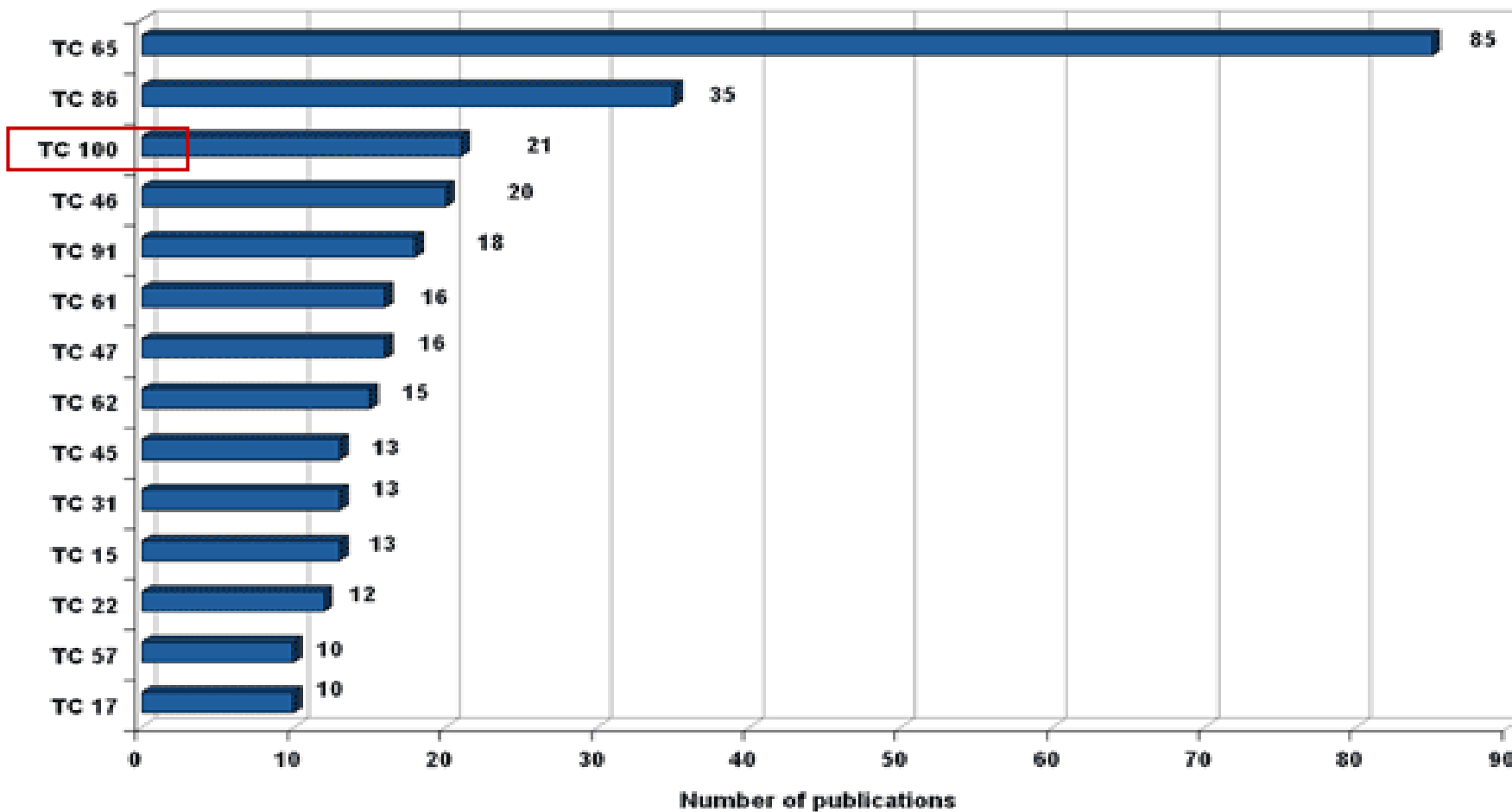
# 2006 Publications produced

TCs producing 10 or more publications



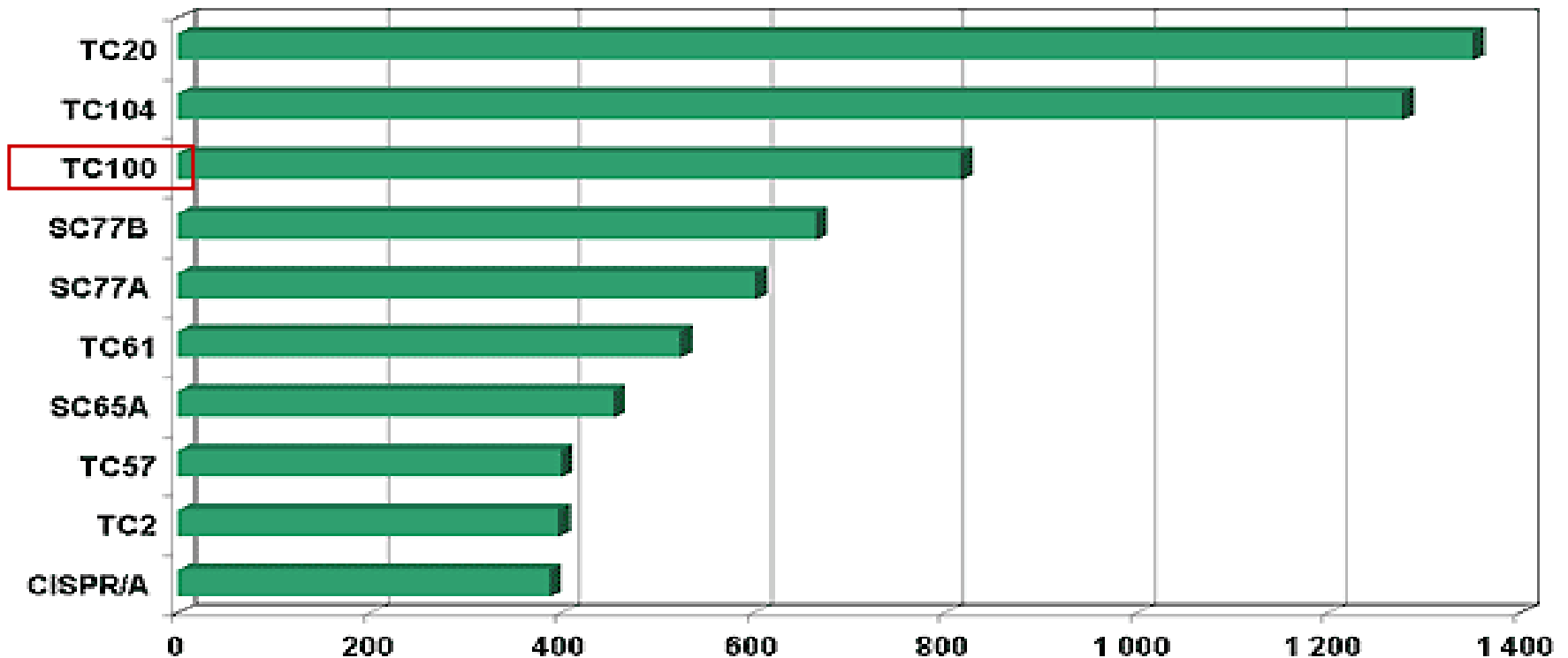
# 2007 Publications produced

TCs producing 10 or more publications



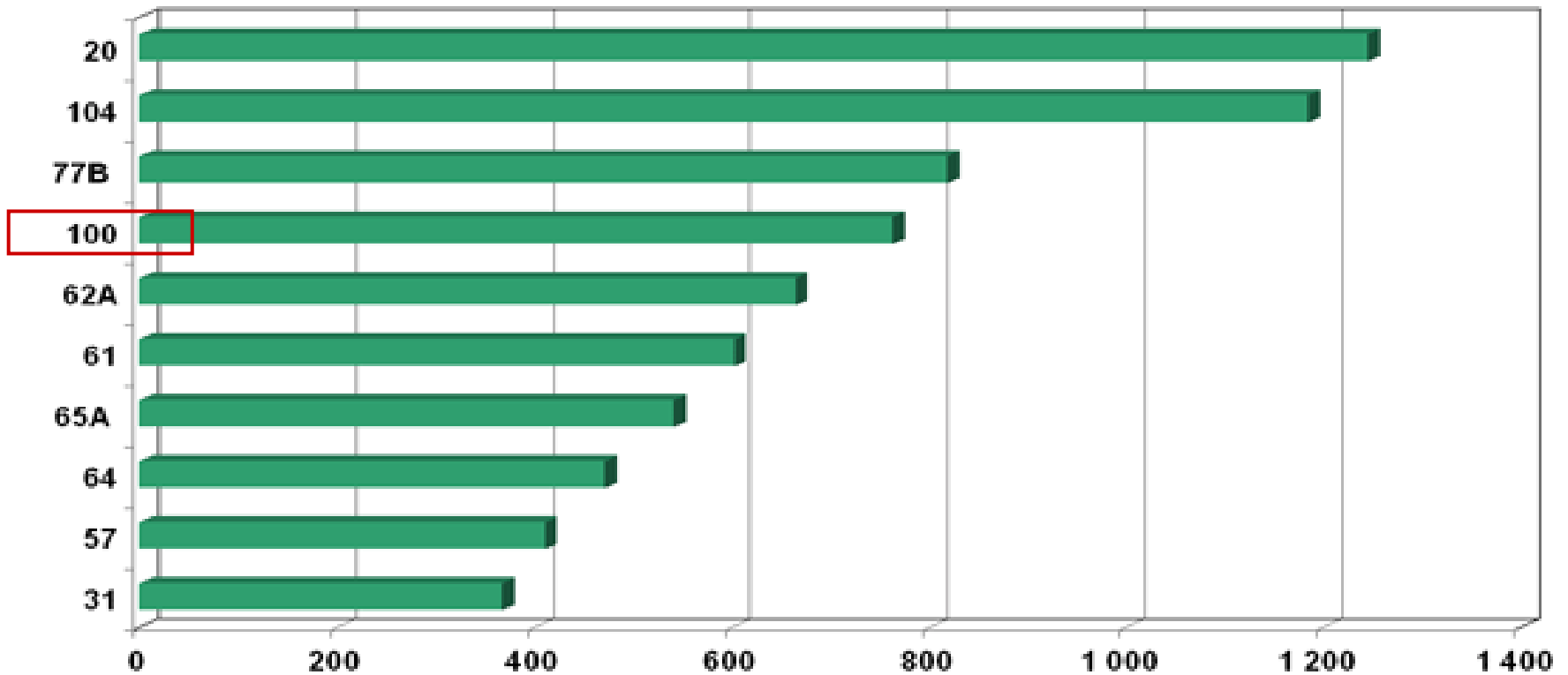
TC 65: Industrial-process measurement, control and automation, led the way in 2007, thanks to the publication of the fieldbus series of standards, and 13 other IEC TCs produced 10 or more publications in 2007.

TC/SC sales: Top 10 by quantity



With 1 351 as the total figure, publications from TC20 (Electrical cables) took the top spot for sales again in 2005, followed by TC104 (Environmental conditions, classification and methods of test) took the second spot with 1277 publications sold.

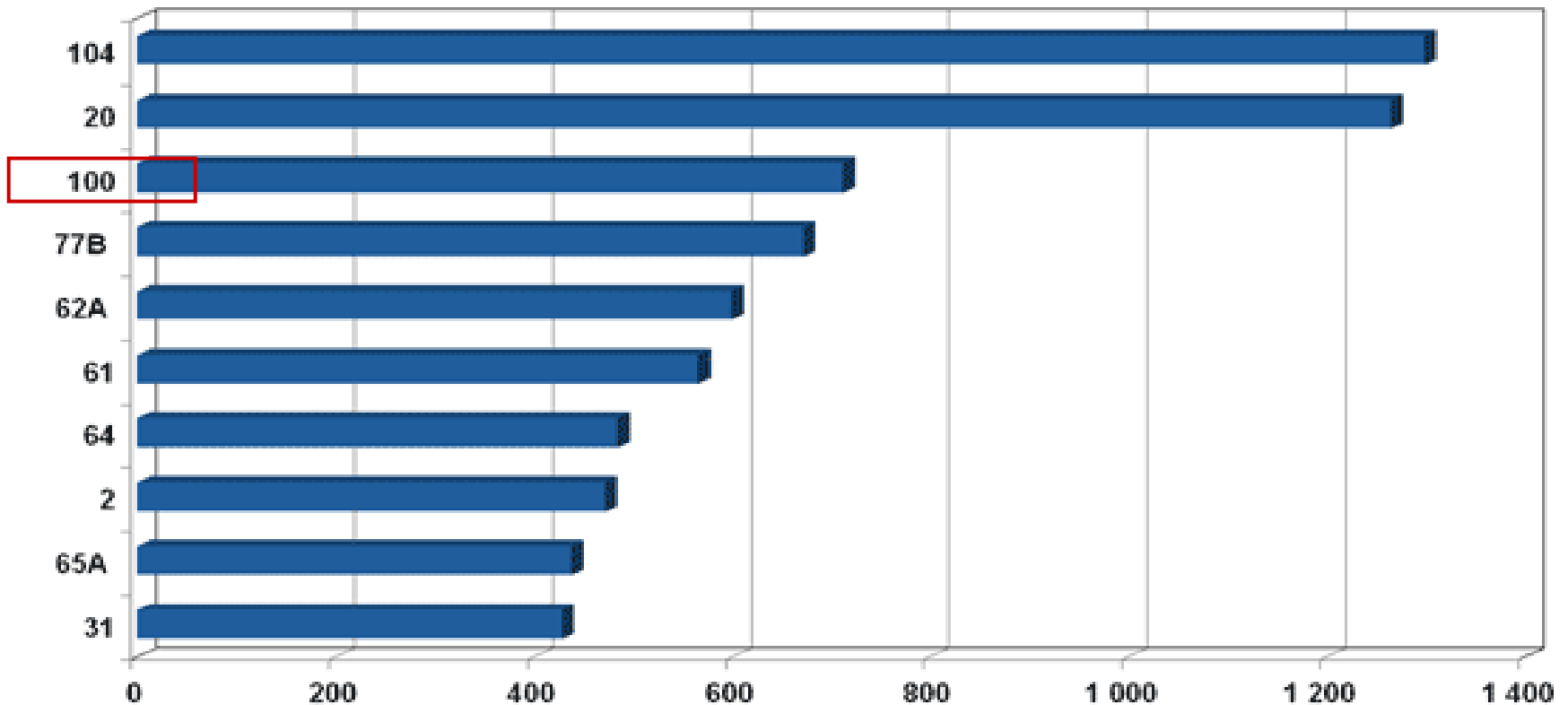
## TC/SC sales: Top 10 by quantity



With 1 245 as the total figure, publications from TC20 (Electrical cables) took the top spot for sales again in 2006, followed by TC104 (Environmental conditions, classification and methods of test) with 1 185 publications sold.



TC/SC sales: Top 10 by quantity



With a total of 1 299 publications sold, TC 104: Environmental conditions, classification and methods of test, took the top spot for sales in 2007, followed by last year's leader, TC 20: Electric cables, with 1 265 publications.

- **TC 100 develops some amount of International Standards (ISs) from major Standardization Development Organizations (SDOs)**
  - **International SDOs have developed a lot of useful specifications that may worth entitled as International Standards**
  - **Almost of all these SDOs stand on industrial members as well as individual members but neither National Committees/Bodies or Administrations**

**TC100 has liaisons with many other organizations including:**

- **ITU**
- **ISO**
- **ISO/IEC JTC 1**
- **IEC TCs/SCs**
- **European, North American and Asian Standards Bodies, Consortium and Trade Associations**

- **TC 100 and JTC 1 Chairmen and Secretaries had three separate meetings since 2007 in New York.**
- **TA 9 (Sub Committee Level) and JTC 1/SC 25 management members met in May 2007.**
- **TC 100/PT Level meetings also invite relevant JTC 1/WG level members**

- IEC/TC 100 AGS concerns the future overlap of IPTV systems/equipment standardization between IEC/TC100 and ITU-T, and recommends that SMB should organize a coordination group on IPTV.
- This issue was discussed at IEC/SMB 132 meeting in early Jun2 this year and it made the following decision.
- SMB Decision 132/9 - TC 100/AGS – SMB/3752/R, SMB/3752A/CC
- The SMB agreed with the TC 100/AGS recommendation for a collaboration group between IEC TC 100 Chairman and Secretaries and relevant ITU-T Study Groups' Chairmen on the subject of home-network and IDTV receiver standardizations on IPTV systems and/or equipment, and recommended representation from TC 100, JTC 1, ITU and ETSI in order to set up a better cooperation between these different bodies.
- The SMB invited ITU-T to concur.

# Invitation letter of TC 100 High Level Meeting on November 20, 2008 in Sao Paulo

**Invitations to:**

Chairman of ISO/IEC JTC 1 ([scott\\_jameson@hp.com](mailto:scott_jameson@hp.com));

Secretary of ISO/IEC JTC 1 ([lrajchel@ansi.org](mailto:lrajchel@ansi.org));

Convener of ITU-T IPTV-JCA ([brian@bwmc.demon.co.uk](mailto:brian@bwmc.demon.co.uk));

Convener of ITU-T JCA-HN ([andrew.nunn@btinternet.com](mailto:andrew.nunn@btinternet.com));

Chairman of ITU-T WP 2/16 Chairman ([okubo@aoni.waseda.jp](mailto:okubo@aoni.waseda.jp));

Rapporteur of ITU-T Question 13/16 ([kawamori.masahito@lab.ntt.co.jp](mailto:kawamori.masahito@lab.ntt.co.jp));

Rapporteur of ITU-T Question 21/16 ([goto@ansl.ntt.co.jp](mailto:goto@ansl.ntt.co.jp));

ETSI Vice-President for Standardization Projects ([michael.sharpe@etsi.org](mailto:michael.sharpe@etsi.org)), and

Chairman of ETSI TISPAN WG 5 ([luca.giacomello@telecomitalia.it](mailto:luca.giacomello@telecomitalia.it)):

**From:**

Mark Hyman IEC TC 100 Chairman ([mhyman@smpte.org](mailto:mhyman@smpte.org)) and

Shuji Hirakawa (Mr.) IEC TC 100 Secretary ([shuji.hirakawa@toshiba.co.jp](mailto:shuji.hirakawa@toshiba.co.jp)):

We wish to extend this invitation to all participants as listed in Annex 2 attached to this document. International Electrotechnical Commission Technical Committee 100 (IEC TC 100) is planning to establish a “High Level Meeting with ISO/IEC JTC 1, ITU-T and ETSI” in order to implement Decision 132/9 by the IEC Standard Management Board.

The TC 100 management team would appreciate if those members acknowledge and attend the first High Level meeting to be held on November 20th in Sao Paulo, Brazil in conjunction with the IEC 72nd General Meeting (<http://www.iec2008.org/index.htm>).

Draft Agenda of the meeting is in Annex 1.

IEC Central Office will provide the necessary information the expected participants for registration to the 72nd IEC General Meeting.

We look forward to seeing you in person or hearing on the line at the meeting.

Yours Faithfully,

IEC TC 100 Chairman and Secretary:

Mark Hyman,  
Shuji Hirakawa.

- **20 - Participating Members:**
  - Australia, Austria, Belgium, China, Denmark, Finland, France, Germany, Italy, India, Japan, Rep. of Korea, Mexico, Netherlands, Romania, Russian Federation, Turkey, Ukraine, United Kingdom and United States
- **20 - Observing Members:**
  - Belarus, Bulgaria, Croatia, Czech Republic, Egypt, Greece, Hungary, Ireland, New Zealand, Norway, Poland, Portugal, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden and Thailand

- **Participating Members:**
  - **Australia, Austria, Belgium, China, Denmark, Finland, France, Germany, Italy, India, Japan, Rep. of Korea, Mexico, Netherlands, Romania, Russian Federation, Turkey, Ukraine, United Kingdom and United States**
- **Observing Members:**
  - **Belarus, Bulgaria, Croatia, Czech Republic, Egypt, Greece, Hungary, Ireland, New Zealand, Norway, Poland, Portugal, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden and Thailand**
- **Others:**
  - **Brazil, Vietnam, Malaysia**



- TA 1 has established PT 62487 at first
- However, PT 62487 decided to update IEC 62087 but create a new standard
  - IEC 62087: Methods of measurement for the power consumption of audio, video and related equipment
- There are strong pressures from regulators to establish the measurement method for TV power consumption
- Manufactures are preparing it voluntarily in order avoid the specification created by a regulator

- **STB power consumption measurement**
  - IEC TC 100 has started an additional maintenance team for further updating of IEC 62087 in order to specify STB power consumption measurement methods.
  - MT met twice since its establishment.
  - The last meeting was in Paris, mid September.
    - Definitions of none-active modes are controversial right now.
- In addition, TC 100 is planning to establish an Ad-hoc Group for IEC SMB SG 1. The convener of this Ad-hoc is Mr. S. Hirakawa.

# IEC SMB SG 1 Recommendations

- **SG 1 Recommendation 17:**  
**TC 100 and TC 108 to develop/update International Standards on measurement procedures for IT equipment and consumer electronics shall be established (or revised, as appropriate), which are the basis for establishing energy consumption/ energy efficiency classes.**
  - **SMB-SG 1/0027/INF July 2008**
- **SG 1 Recommendation 18:**  
**TC 100 and TC 108 to develop a harmonized international system of energy consumption classes including a labelling scheme to determine the energy consumption/ energy efficiency of consumer electronic products, such as TV sets, set-top boxes, cable modems, DSL routers etc.**
  - **SMB-SG 1/0027/INF July 2008**
- **SG 1 Recommendation 15c:**  
**TC 100 and TC 108 to take into account both stand-by losses and off-mode losses in their product standards. This requires external power supplies (AC/DC converters) to be considered as integral parts of the pertinent appliances. For true zero stand-by and off-mode losses, the power supply shall be completely disconnected from the mains power by appropriate means.**
  - **SMB-SG 1/0027/INF July 2008**

# Recent and future meetings

- *2004-05: AGS/AGM in Copenhagen/Denmark*
  - *2004-10: PL in conjunction with IEC Seoul GM/Korea*
  - *2005-05: AGS/AGM in Singapore*
  - *2005-10: PL in San Jose/USA*
  - *2006-05: AGS/AGM in Helsinki/Finland*
  - *2006-09: PL in conjunction with IEC Centennial GM in Berlin /German*
  - *2007-05: AGS/AGM in Warsaw/Poland*
  - *2007-10: PL in Alsace (Colmar)/France*
  - *2008-04: AGS/AGM in Bangkok / Thailand*
- 
- 2008-11: PL in conjunction with IEC Sao Paulo GM/Brazil
  - 2009-05: AGS/AGM at CEA/Washington DC
  - **2009-10: PL in conjunction with IEC Tel Aviv GM/ Israel with the first TC 100 and JTC 1 Joint Management meeting (2009/10/20)**
  - 2010-05: AGS/AGM in Madrid / Spain
  - 2010-09/10: PL in conjunction with IEC Seattle GM/USA



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Thank you for your attention  
Shuji Hirakawa  
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