

# Overview of China Communications Standards Association (CCSA)

## 中国通信标准化协会概要

18 May, 2010



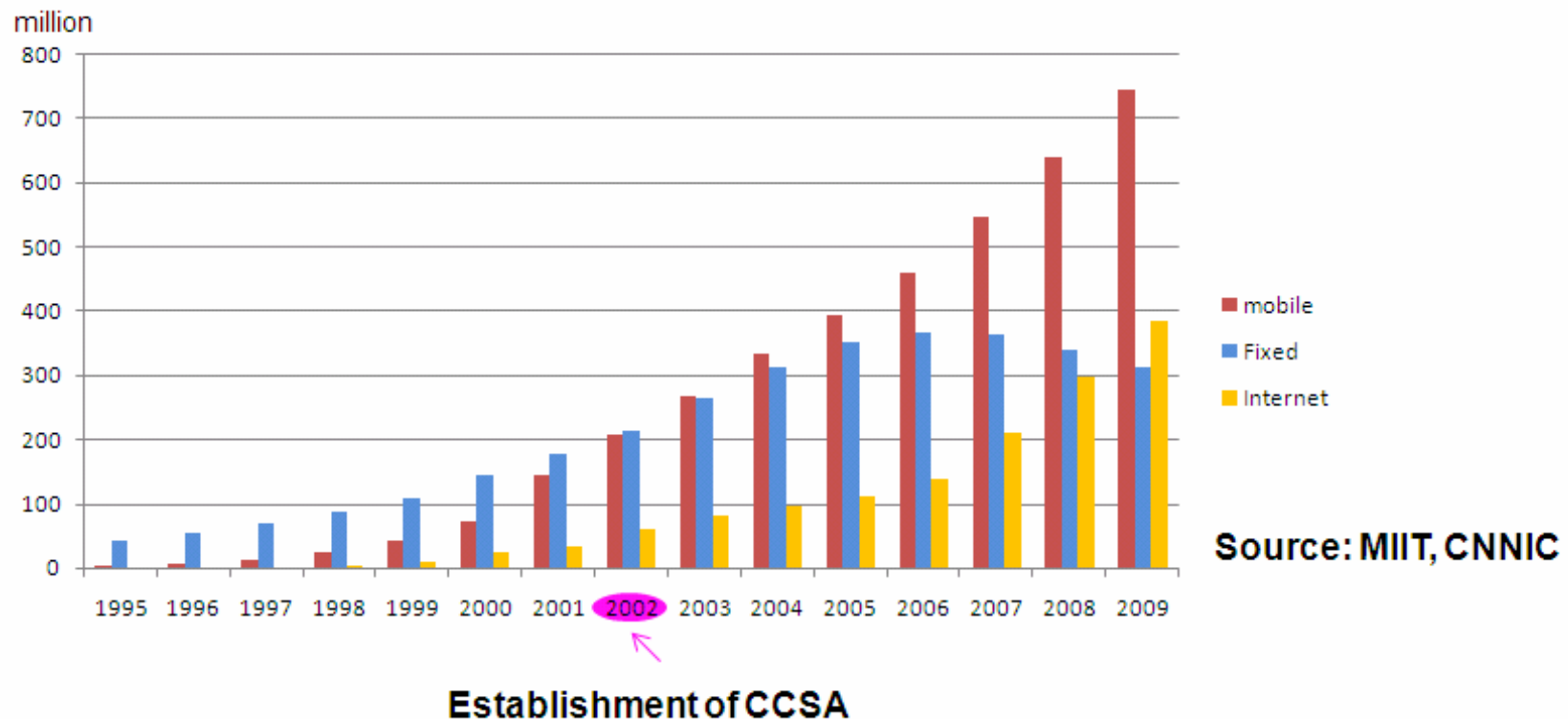
# Overview of CCSA

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- Mission and Scope
- Organizational Architecture
- Members
- Major Activities

# Rapid Growth of Communication Market in China

- Mobile subscribers reached 747 million, about 2 times of Internet users in 2009.
- Internet subscribers mounted 384 million, more than 80% is broadband based.
- Fix-line voice subscribers totaled 314 million.



# Call for Domestic SDO of Communications

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- Importance of communications standards and domestic SDO was highly recognized by the industry in early 21th century.
  - Interoperability of terminal, networks and services between multiple carriers and vendors nationwide needs standards.
  - The involvement of Chinese telecommunication vendors in international competition requires domestic standards to keep up with international standards.
  - Raise of technology innovation capabilities provided good support for standard development.

# Establishment of CCSA

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- CCSA was founded on December 18, 2002 as a voluntary civil organization of telecommunication industry, authorized by the Ministry of Information Ministry (MIT) and the Standardization Administration of China (SAC) to research on telecommunication standards in China.

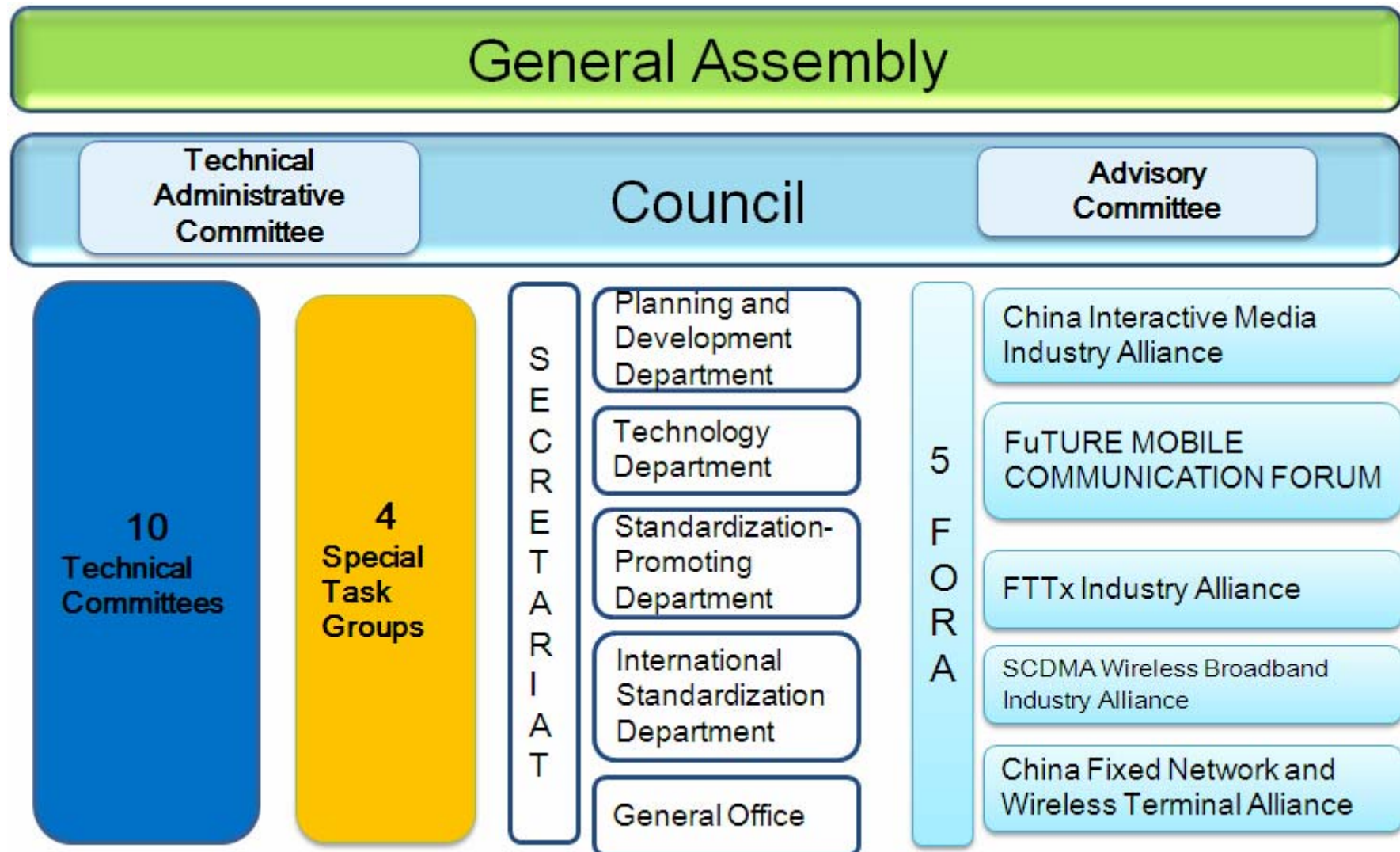


# Mission and Scope

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- Core Purpose
  - To foster telecommunication technology innovation and standardization
  - To recommend technology and standard to the country ministry and International SDOs.
- Major Scope of Standards and Researches
  - Telecommunication Networks
  - Telecommunication Services
  - Green Telecommunication and Social Welfare

# Organizational Structure



# Technical Bodies

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## 10 Technical Committees (TC)

**TC1:** IP & Multimedia Communication

**TC2:** Mobile Internet Application Protocol

**TC3:** Network and Switching

**TC4:** Communication Power Supply & Station Operational Environment

**TC5:** Wireless Communication

**TC6:** Transport & Access network

**TC7:** Network management & Operation Support

**TC8:** Network & Information Security

**TC9:** Electromagnetic Environment & Protection

**TC10:** Ubiquitous Network (UN)

## 4 Special Task Groups (STG)

**STG1:** Home Network

**STG2:** Energy Saving and Comprehensive Utilization of Telecommunication Products

**STG3:** Emergency Communication

**STG4:** Telecommunication Infrastructure Construction



# Members

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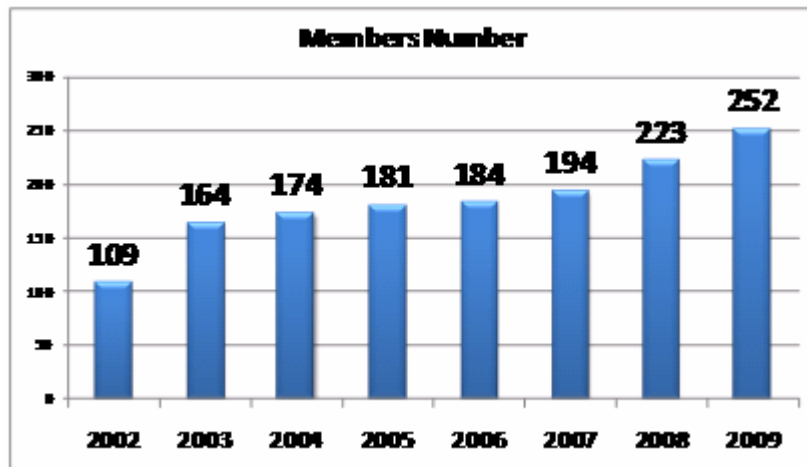
CCSA members are from companies of all aspect of the industry in China, totaled 252 in 2009, more than double since establishment.

✓ 222 members

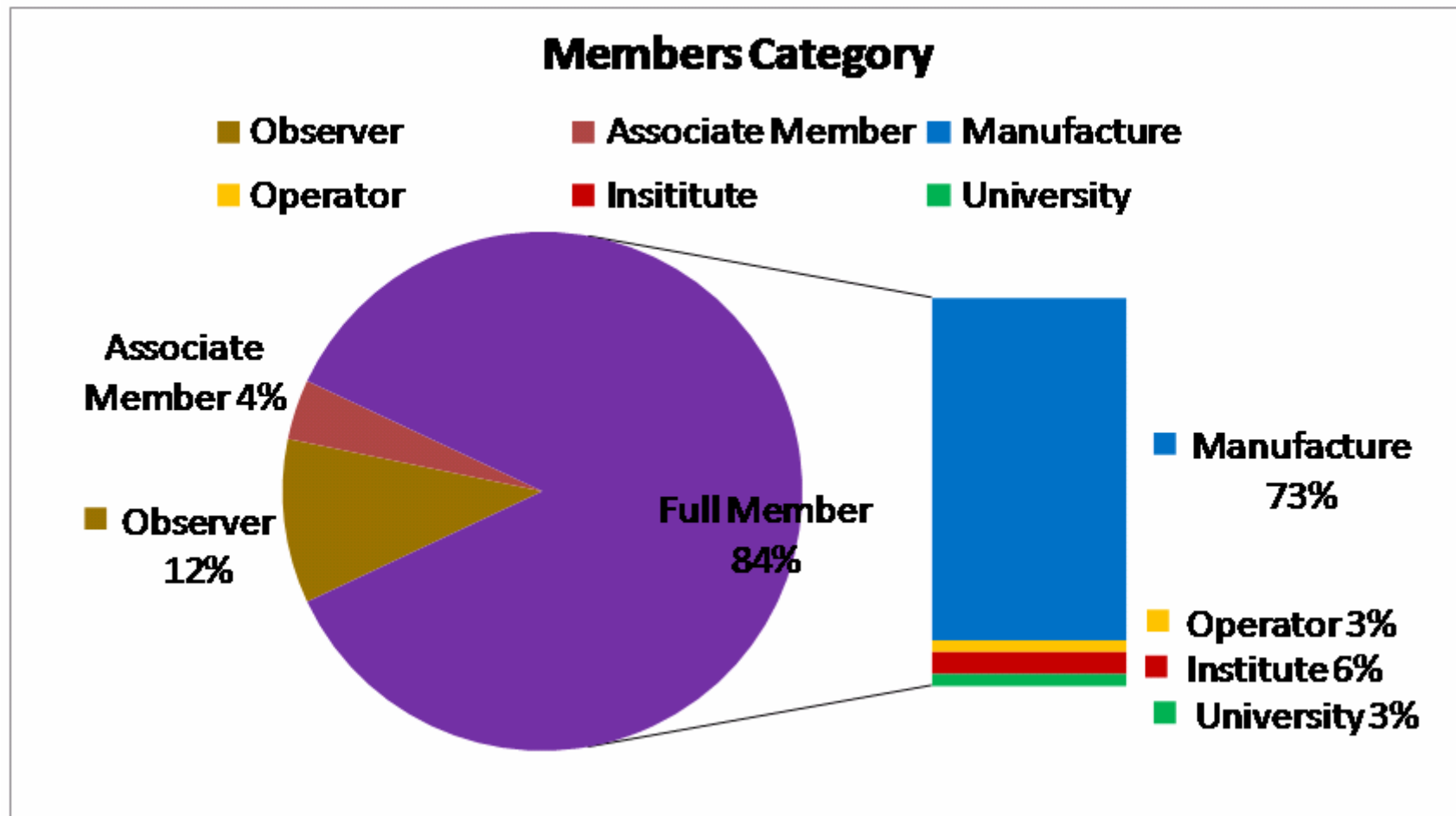
- Network operators: China Telecom, China Mobile, China Unicom etc.
- Manufacturers: Datang Telecom, ZTE, Huawei, Potevio, Shanghai Bell, Ericsson Panda, Nokia Siemens, Motorola etc.
- Others: CATR, WRIPT, Tsinghua University, BUPT, etc.

✓ 30 observers

- Microsoft, QUALCOMM, Intel, Cisco, Sony, Panasonic, France Telecom



# Members Category



# Statistics of Standards

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- Domestic Standards System
  - G: National Standard
  - H: Industry Standards
  - T: Technical Report
  - B: Research Project
- At the end of 2009, CCSA has undertaken about 2200 standard projects
  - 1335 standards published
  - About 900 standard projects under study



# Wide Area of Communication Standards

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## ★ Network standards

NGN, ASON, MAN, Access Network, Broadband Wireless Access, 3G and evolution (TD-LTE, IMT-advanced), IMS, IPv6, Network Management, Network and Information Security etc.

## ★ Service standards

IPTV, e-commerce, e-government, e-payment, video surveillance, IM, unified communication etc.

## ★ Standards for social welfare:

Emergency Communication, Energy-saving and emission reduction, Information Accessibility, impact of electric-magnetic field radiation on human body etc..

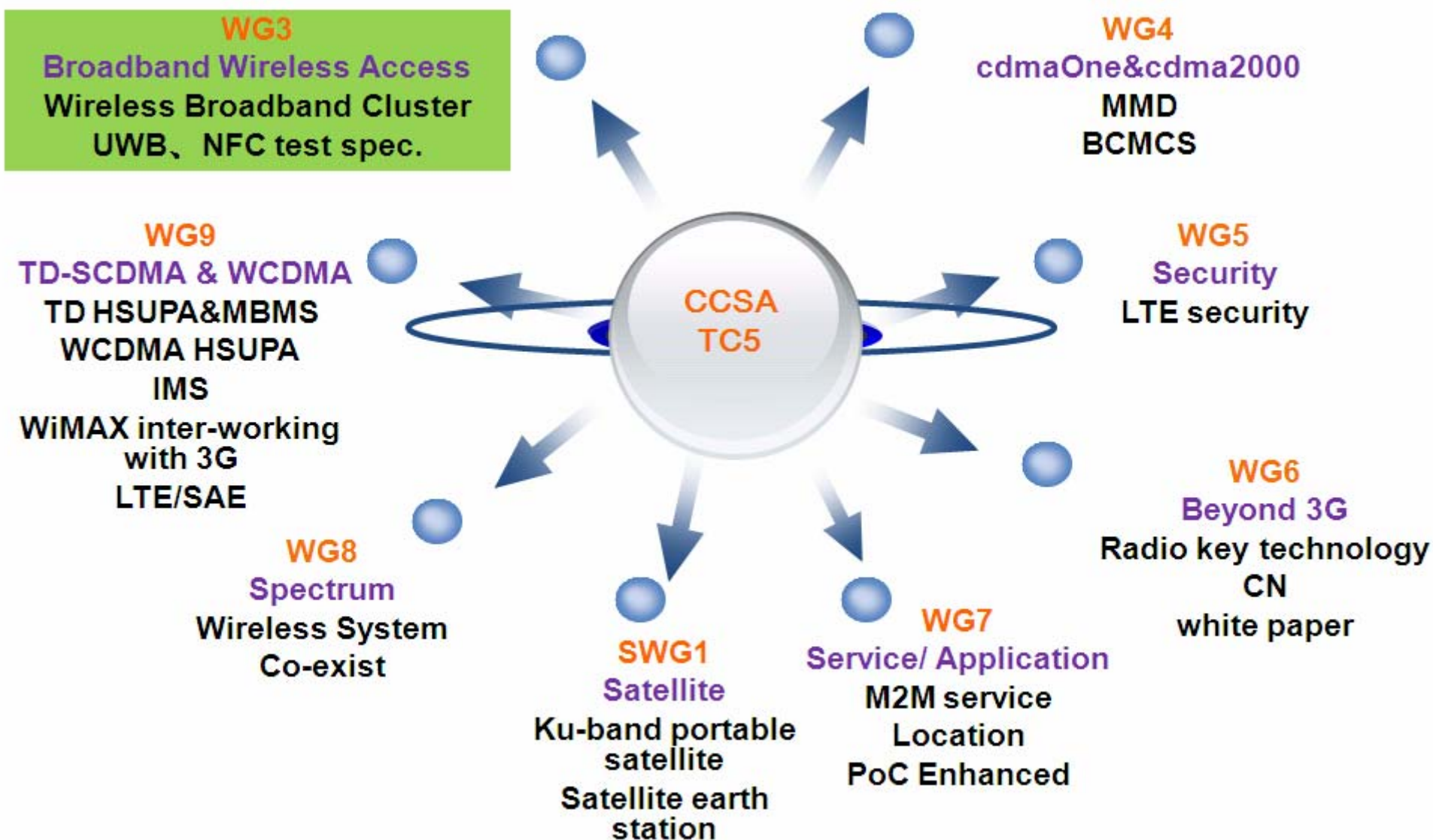
# Key Interest of 2010

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There are 8 key interest areas of the year 2010:

- Ubiquitous Network (UN)
- Convergence of telecommunications networks, cable television networks and computer networks
- Convergence of Information Tech and Industrialization
- New generation of broadband wireless mobile technologies
- Internet
- Energy saving and emission reduction
- Telecommunication infrastructure construction and resource sharing
- Promotion of international standardization

# Interest of Wireless Tech: TC5



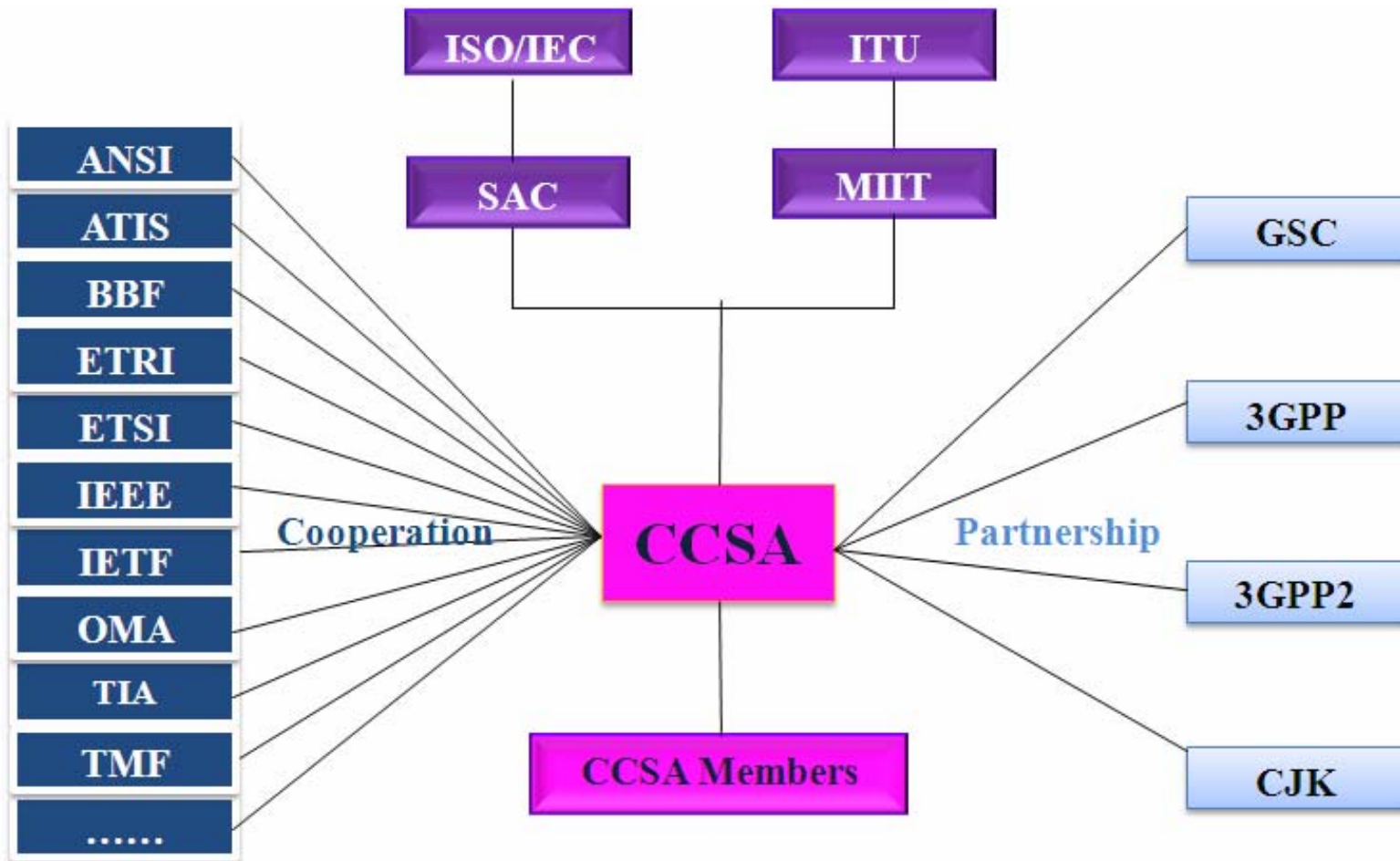
# **CCSA TC5 WG3:**

## **Broadband Wireless Access**

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- Research scope of TC5 WG3 matches IEEE802 for Broadband Wireless Access
- Since establishment, TC5 WG3 major work include:
  - NFC, UWB, ZigBee
  - Public WLAN
  - SCDMA
  - Fixed and Mobile WiMAX
  - Broadband Wireless Cluster
  - Integration of Wireless Sensor Networks with Telecommunication Networks
- There's liaison between CCSA TC5WG3 and 802.16WG.

# International Cooperation



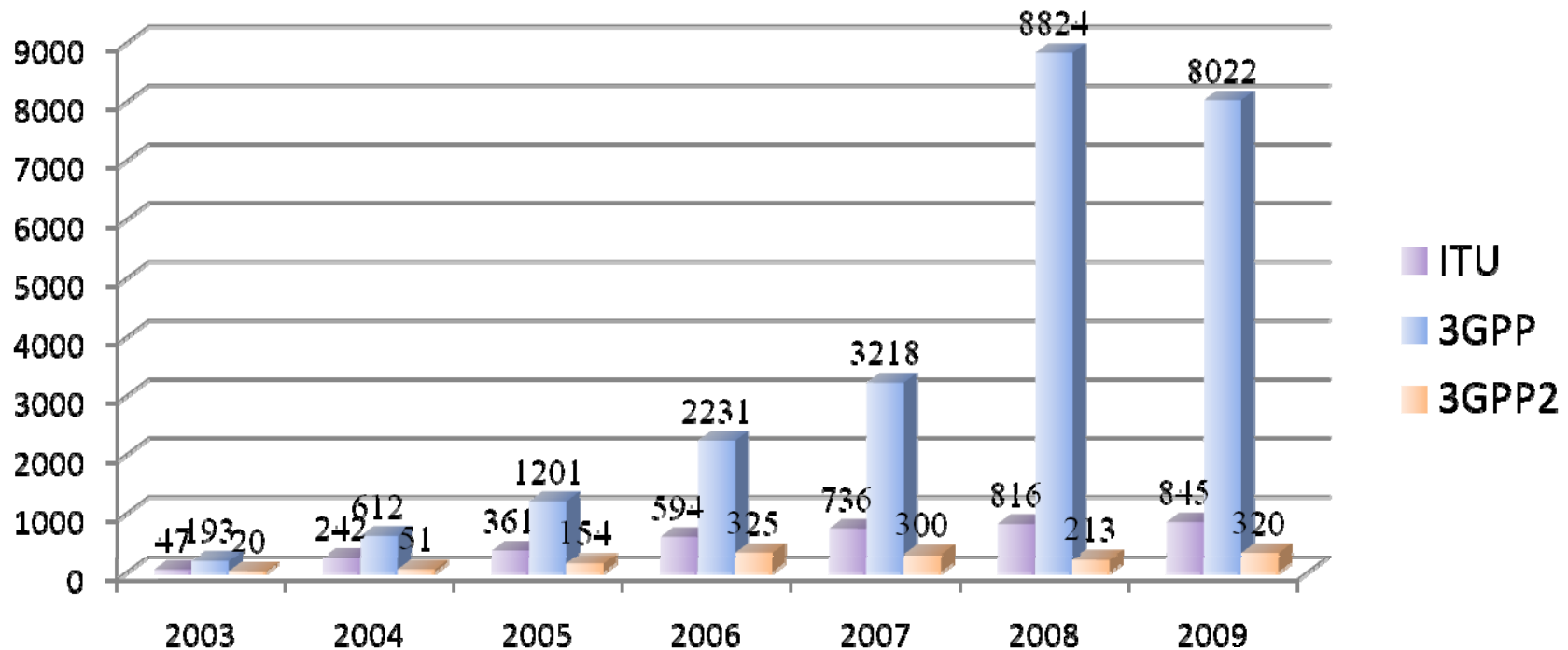
MIIT :Ministry of Industry and Information Technology of The People's Republic of China

SAC : Standardization Administration of the Peoples Republic of China



# Contributions to International SDOs

Since the establishment of CCSA, the number of contributions of members to ITU, 3GPP, 3GPP2 and other international and regional standards organizations increases year by year. The quality and acceptance rate of the contributions also increase step by step.



# Cooperation with IEEE

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- Importance and success of IEEE communication standards and research is highly recognized in CCSA members.
- The group of IEEE standard activities of CCSA was established in April 2010.
  - Share information between members
  - Promote contributions to IEEE standard development

Looking forward for closer cooperation in the near future!

# Contacts

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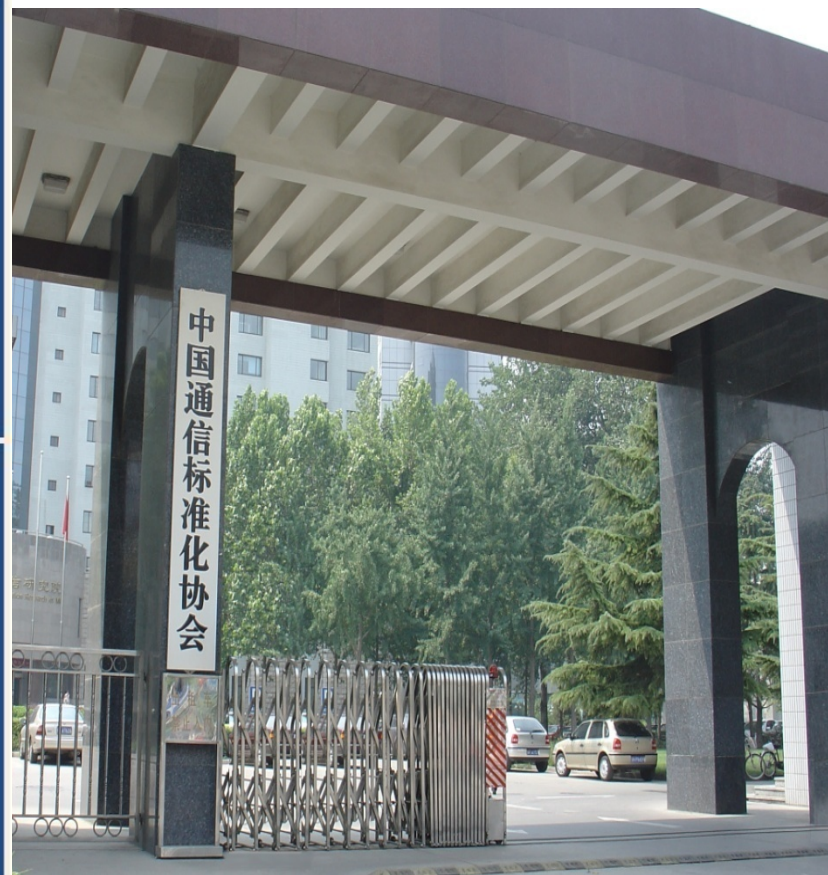
**China Communications  
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**Thanks!**

**谢谢!**