



# Brief Introduction to China Communications Standards Association and its Standardization Activities

China Communications Standards Association  
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<http://www.ccsa.org.cn>



# General

- u Situation in China
- u Brief Introduction to CCSA
- u Consideration For The Future



# Communication Network in China

- u For several years, Chinese telecommunication industry continued keeping the fast and healthy growth momentum. The scale of the network and the number of the subscribers both topped the world;
- u The fixed line subscribers totaled 360 million(those in Hongkong, Macao and Taiwan are not included,the same as following) and the mobile subscribers reached 410 million. The telephone density topped 55.7%.(Up to the end of March, 2006 from [WWW.MII.GOV.CN](http://WWW.MII.GOV.CN)) ;
- u The internet users added up to 111 million, among which, 44.5% are broadband access users. (Up to the end of September, 2005 from [WWW.CNNIC.NET.CN](http://WWW.CNNIC.NET.CN))
- u The scale of the network and the number of the subscribers both topped the world. communication standards played a important role.



# Communications Standards in China

- u Before 1997, the study and development of communications standards were mainly carried out by specific professional groups and managed and funded by the government. Those standards strongly supported the construction of communication network and development of manufacturing;
- u Since the foundation of MII in 1998, the government functions were separated from enterprise management. The Macro-scale Management was strengthened;
- u The restructuring and the industry supervision calls for interconnection and interworking;
- u Domestic industry has grown stronger. The enterprises were eager to join the development of standards;
- u The entrance of WTO calls for keeping pace with and strengthening exchange with international industry;
- u The industry need a national unified non-government communication standards organization keeping pace with international industry.



# Foundation of CCSA

Through 3 years' preparation, with the approval of Ministry of Information Industry and Standardization Administration of China and the Civil Affairs Ministry, China Communications Standards Association was founded on December 18, 2002.





## Communication Technical Standards in China

- u **State Standards (GB)**

Drafted by CCSA, censored by MII, approved and published by SAC

- u **Communication Industry Standards (YD) and Communications Standards Technology Reference File (YDC)**

Drafted by CCSA, approved and published by MII

- u **Technical Report of Communicatoin Standards Class (TR)**

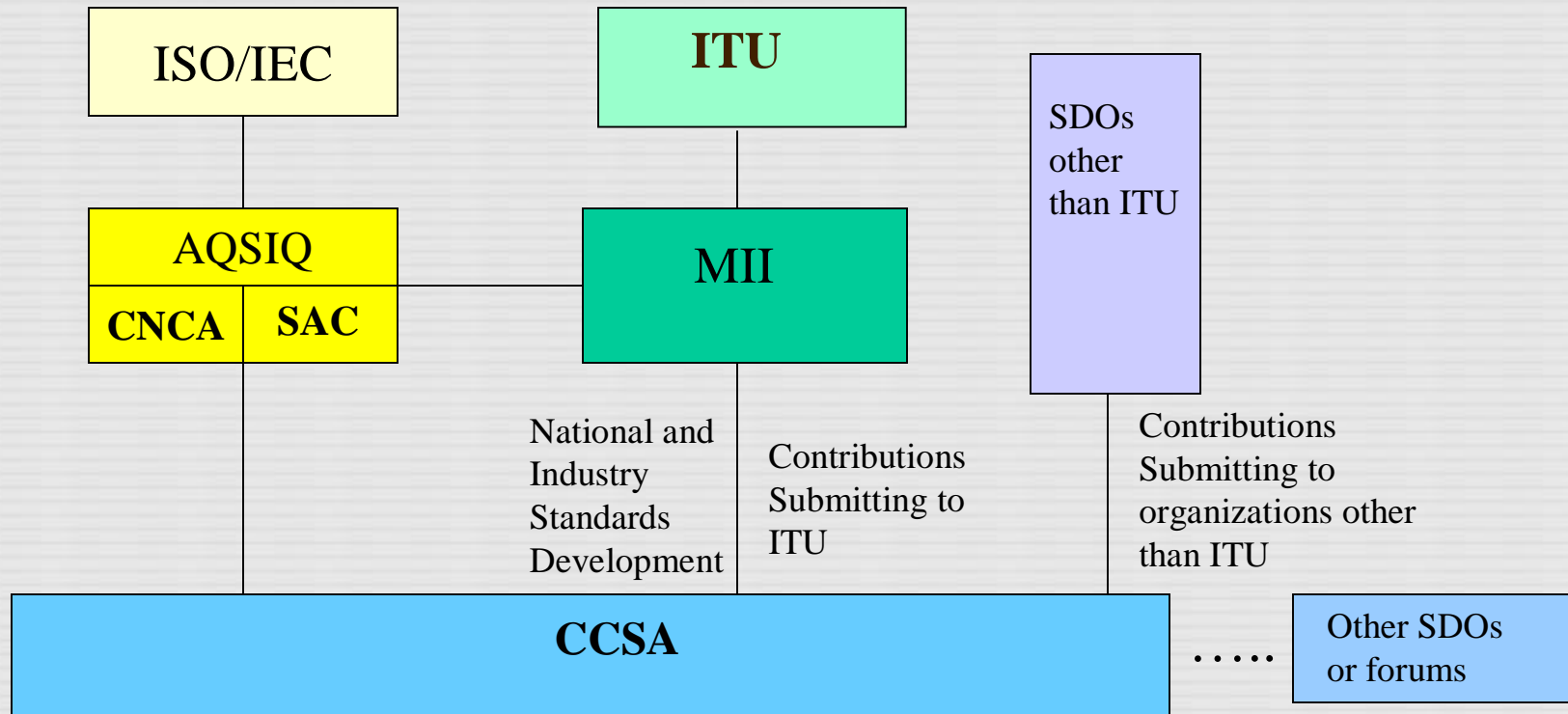
Drafted, approved and published by CCSA

- u **Enterprise Standards**

Drafted and published by respective enterprise.



# Relationship with other Bodies



AQSIQ: Republic of China for Quality Supervision and Inspection and Quarantine

CNCA: Certification and Accreditation Administration of the People's Republic of China

SAC: Standardization Administration of China



# Principle

- u CCSA is a non-profit organization of legal person approved by the relevant Authority of Chinese government.
- u CCSA will follow the principle of “Openness, Fairness, Justness and Consensus” to extensively absorb manufactures, universities, institutes and users to voluntarily join in the communication standardization activities;
- u CCSA will continue to strengthen the cooperation with external organizations and companies, and actively join in the development of international standards to improve the ICT standardization activities in China and contribute to international standardization industry.





# Structure



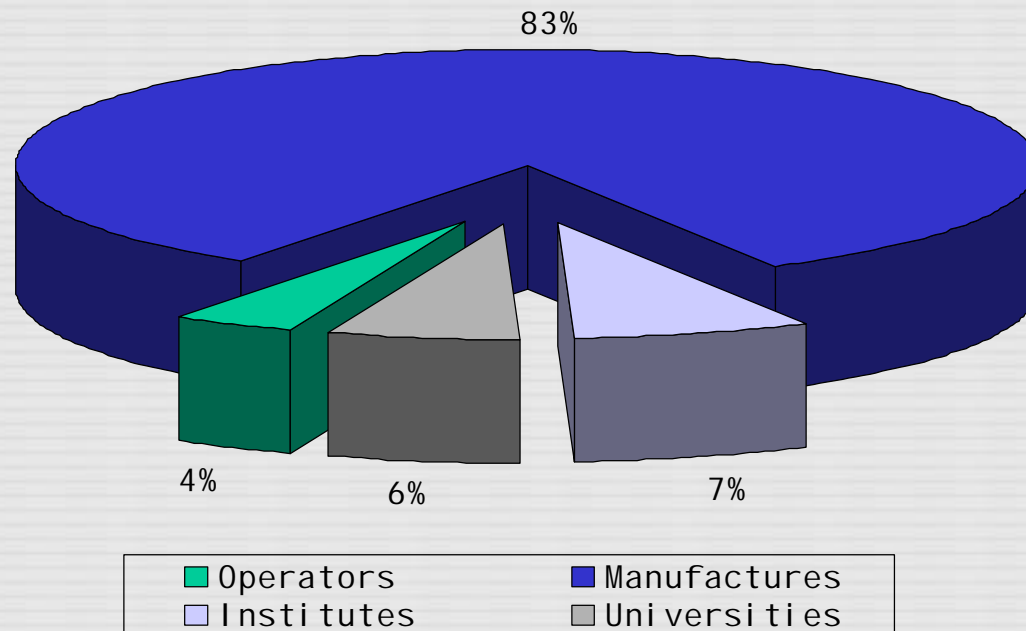


# Members

- u Domestic institutes, manufacturers, network operators, universities, as well as joint ventures can voluntarily apply for the membership.
- u CCSA also welcome foreign companies and foreign-investment enterprises to join in CCSA as observer.
- u Up to April 30, 2005, CCSA has accepted 164 members and observers covering network operators such as China Mobile, China Unicom, China Telecom, China Netcom, etc. and R&D institutes, design institutes and university such as China Academy of Telecommunications Research, Wuhan Research Institute of Posts & Telecommunications, Sinoking P&T Design Institute, Beijing University of Posts and Telecommunications etc. and manufacturers such as Datang Telecom, ZTE, Huawei Technology, China PUTIAN etc. as well as joint ventures.



# Members Component





# Standards Study

- u Over 400 communications industry standards have been developed and revised, since the establishment of CCSA.
- u These standards cover NGN, Soft-switching, IPv6 protocol and evolution, IPQoS, network security, information security, ASON, access network, MAN, wireless broadband access, mobile communication and other key communication technologies.



## Standards Study-Mobile Communication

- u The drafting and censoring work of the 102 3G series industry draft standards including TD-SCDMA , WCDMA , cdma2000 and network management, service application have been started in an all-round way.
- u 23 TD-SCDMA standards were issued by MII in January, 2006, which provided technical references to equipment development and network test.



## Standards Study-Home Network

- u Home Network Ad hoc Group was founded, adopting Rapporteur system in this Group;
- u At present, “the technical standards system on home network”, “Telecommunication Network based home network general technical requirement” and “Telecommunication Network based home network equipment technical requirement” has been drafted.



## Standards Study-Internet Content Filtering

- u In order to match "the sunlight Internet Content Filtering Project" raised by MII, Internet Content filtering Ad hoc Group was established in Security Management WG in Information Security Technical Committee of CCSA to standardize Internet terminals.
- u Scope of Activities:  
To avoid spam , bad short message, carry out Internet Content Filtering Project to safeguards the young people's healthy growth, cooperating with Internet Society of China, CCSA will develop relative series products standards and testing standards.
- u To meet the weak and disabled persons' requirements, we are putting emphasis on the study and development of information barrier-free standards;



## Standards Study-IPTV

- u As a new service based on broadband multimedia, IPTV has attracted attentions from the industry in recent years. In view of some standards of urgent needs, CCSA established IPTV Special Task Group to carry out studies on IPTV standards.
- u Up to now, 6 standards have been finished, including IPTV standards system, service requirement, service framework, top-box technical requirement, interface between top-box and service system, interface between service platform and content platform, requirement of service to access equipment etc;
- u Actively participate in the activities of ITU IPTV FG.





## Standards Study- Basic Study

- u CCSA has started studies on some important and hot new communication technologies such as home network, IPTV、 FTTH、 WiMAX、 ASON,etc., which make the standards research work of CCSA in front of communication technologies all the time, so as to establish foundation for standards development in the future, and to provide reference or guide for standardization activities.
- u CCSA pays attention to the study on guideline document and basic works, specially launched researches on some important subjects such as " The Research on Communication Standards System Framework", "Important Communication Technology Fields and Subjects for Standards Study" , "Communication Standards Development Strategy" , "Study on Intellectual Property Right Policy of CCSA " . The study on "The Eleventh Five-Year Planning for communication standards" have also been started.

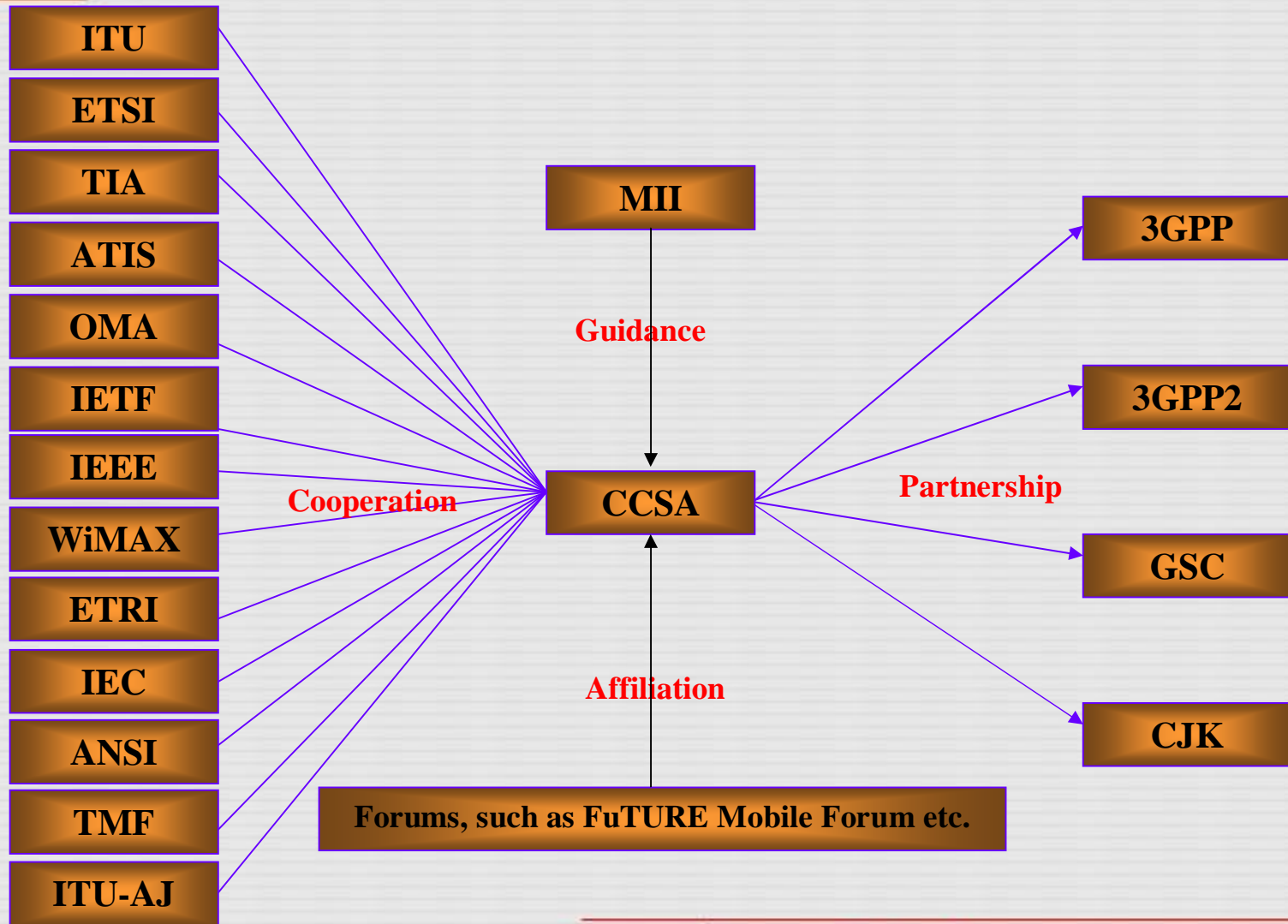


# International cooperation

- u CCSA attaches great importance to the exchange and cooperation with international and regional communication standards organizations;
- u CCSA participates actively in ITU's activities and relevant ISO/IEC's activities.
- u CCSA is a partner of GSC, 3GPP, 3GPP2 and TMF.
- u CCSA signed MoU with ETSI.
- u CCSA has set up communication channel with IEEE, IETF, ATIS, TTA, WiMAX, WiFi, OMA, ASEAN etc.
- u CCSA has participated in CJK Meeting on Information and Telecommunications Standards for 5 times.



# Internal and External Relationship Chart





# International Cooperation



← CJK Meeting on Information and Telecommunications Standards

Discussion with delegation of ITU →



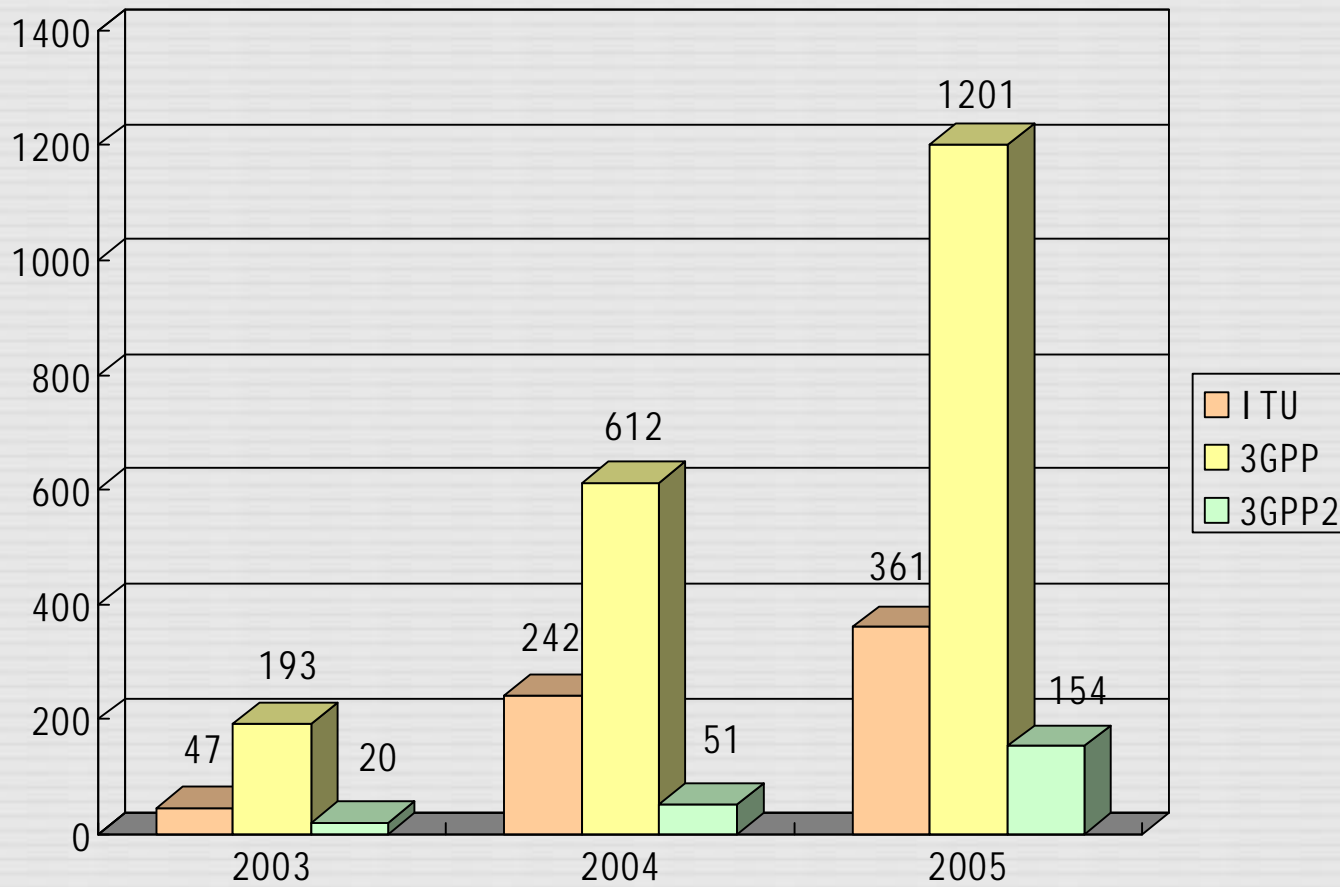


# International Contributions

- u In 2005, more than 1000 participants of ITU, 3GPP, 3GPP2, TMF, OMA, IEEE, IETF and other international organizations are from CCSA's members.
- u The number of chairmen/vice chairmen, group leaders, reportuears, and editors in international and regional standards organizations increases year by year. Now, we have 26 experts taking positions in these organizations;
- u In 2005, 361 contributions discussed in CCSA were submitted to ITU, 1201 to 3GPP, and 154 to 3GPP2. After several years' effort, the number and the technical depth and quality of the contributions increase year by year. Moreover, the acceptance rate has also been promoted.



# International Contributions Trend





# Website and Publications

- u The website of CCSA, [www.ccsa.org.cn](http://www.ccsa.org.cn), Chinese and English edition, is a channel for information release on Internet. It is a vertical portal at which publicizes standardization policies and regulations, introduces new technology, carries out activities of standard contributing and revising and offers information on communication standards as well as propagandize the standardization policy, industry news, standardization activities of CCSA, and to report hot technologies, carrying on connection with members, material download, meeting registration, discussion etc.;
- u Electronic material and wireless access were used in all the meetings;
- u "Communication Technologies and Standards" to introduce the latest technologies and standards in information and communication field;
- u "Research Reports" to carry out researches on some hot and perspective communication technologies;
- u "CCSA Information Bulletin" to proclaim the content and achievements of CCSA's activities, so that the members of CCSA can acquaint themselves with relevant information on the communication technology standards activities.



# Planning for the Future

- u To continue to carry out further innovation on management mechanism according to WTO rules;
- u According to the technologies development trend and market need, to timely develop technical standards in some hot and key ICT technologies field, which meet the need of the development of domestic communication industry;
- u To actively submit contributions to ITU, 3GPP, 3GPP2 and other international organizations to contribute to international standards;
- u strengthen international technical exchange and cooperation, to participate in the international standardization activities to deeper extent and more extensive field, seeking more extensive connection and cooperation with international associations, academies and forums, especially ITU;





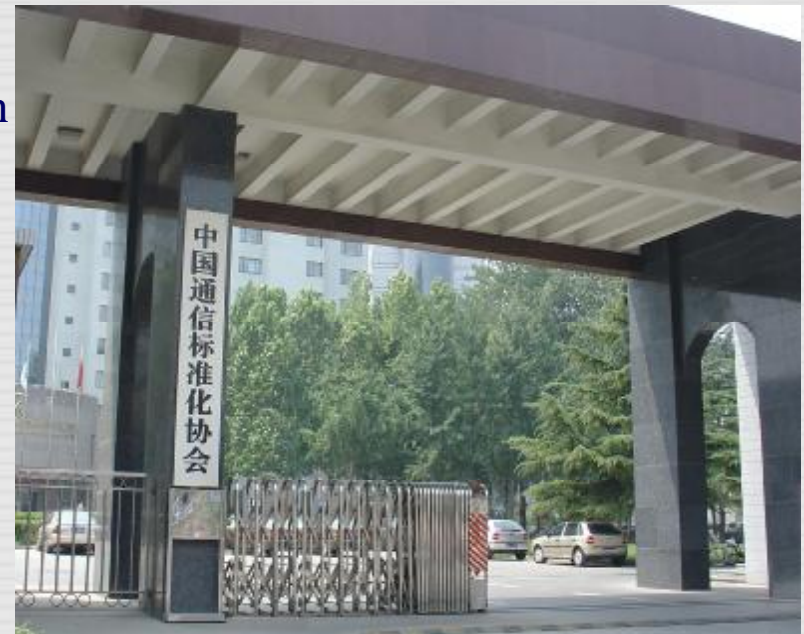
# Planning for the Future

- u To strengthen the studies on NGN, ASON, broadband access, IPv6, IPTV, 3G, E3G/B3G, network management, information security, mobile TV technologies and relevant standards;
- u To extensively absorb foreign and domestic manufactures, operators, universities and institutes to join in the development of standards, as well as encourage middle and small-sized enterprises to join in the study and development of technologies and standards;
- u To strengthen the cooperation in training experts, such as invite experts from each other side and to carry out exchange and training in the field of management and technologies.
- u We would like to build CCSA a international well-known and domestic authoritative communication standards organization with the joint effort of our colleagues.



# *Thank You !*

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