

The background features a stylized, light blue face with a smile, partially obscured by abstract, flowing shapes in green, purple, and yellow. The overall aesthetic is clean and modern.

# **Communication standards and IPR**

**China Communications  
Standards Association**

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# Current situation of standards

- ❑ The rapid development of IT technology lays a foundation for economy globalization, and the economy globalization promotes the development of IT;
- ❑ For communications, physical distance and communication time have tended to be “0”, while the widely-distributed network tends to be “∞”;
- ❑ Each country is formulating the standardization and IPR strategy; standards and have become the international, national and enterprises’ focus;
- ❑ China has come up with the idea of constructing a innovative country and the standardization and IPR strategy, which has aroused great concerns of many countries.

# Standards become the core of information industry chain

In different stages of economic development, the role and function of standards are different. With the development of information industry technology and market, great changes have happened to the contents of standards. Standards are not purely the unified stipulations for repetitive matters and concepts any longer, but the core of information industry chain.

- ◆ **Early research orientation – standard is the guide of technology ;**
- ◆ **R & D – standard is the basis for R &D ;**
- ◆ **Equipment production – standard is the assurance of quality ;**
- ◆ **Planning and construction – standard is the goal of design ;**
- ◆ **Business openness – standard is the source of profit ;**
- ◆ **Network interconnection – standard is the foundation of interfaces ;**
- ◆ **International trade – standard is the language of trade.**

# Characteristics of communication standards

- ❑ Communication technology is new, develops very fast and pluralistic, is diversified and net-wide, and the scale effect is obvious;
- ❑ To reduce the risks and costs, minimize the interconnection and interlink equipment and protocol conversion, it is necessary to adopt the unified and centralized way to develop the standards, and it is necessary to identify the standards appropriately in advance of the network construction and equipment production;
- ❑ Adopt the international advanced standards and the foreign advanced standards; revise the international standards according to the situation of China; positive submittal of the international standards is the major principle;
- ❑ During the process of participating the international standardization activities, take technical renovation as the basis, transfer from tracking, digesting and absorbing international standards to participating and drafting international standards.

# standards, innovation and IPR (1/2)

- ◆ To insist on the principle that the technical innovation takes as the basis, the increase of key technology of independent IPR in the standard as the emphasis, meeting the needs of development of information industry as the goal; so as to improve the standardization level of the national information and communication industry, so as to contribute to realize the powerful nation in the field of telecommunications;

# Communication standards, innovation and IPR (2/2)

- Standards innovation is the core:

Based on the strength of the state and the enterprises, carry out independent innovation, integration innovation and digestion & absorption re-innovation, identify the breakthrough direction of critical areas, set the breakthrough goal of TO DO IN SOME AREAS AND NOT TO DO IN SOME AREAS for technology; lay the foundation for patent application;

- IPR protection is the means:

Protection of IPR and safeguarding of the rights and interests of the right owners are not only the need for improving the market economy system of our country and independent innovation, but also for building the international credit and carrying out international cooperation.

- Integrated use is the purpose:

To conduct analysis on advantages and disadvantages of technology and market, make it mutually beneficial, promote combination of patents and standards, realize industrialization, keep away and repel unfair competitions and technical barriers.



# Communication standards and IPR

**Introduction of patents into standards is double-faced, pay attention to its harmonized combination and ratioale reference.**

❑ Protect the legitimate rights and interests of the patent rights owners, pilot the technical innovation, but it may form technical **monopoly**;

❑ Promote use of new technologies, but it may have impact on the efficiency of standard development and **popularization**;

❑ Foster the transformation of operators and the **prosperity of telecommunication business**, but it may also become the **obstacle of interconnection and interlink**;

❑ May become the powerful non-tariff technical measures, but it may become the **technical barrier for exports**.

# Research status of communication standards

- ◆ At present, the communication field has completed 2000 national and trade standards, which supports the rapid development of China's communication cause;
- ◆ These standards cover NGN, Soft-switching, IPv6 protocol and evolvement, IPQoS, network security, information security, ASON, access network, MAN, wireless broadband access, mobile communication and other key communication technologies.

# Development direction of communication standards

- ◆ To set up a market-oriented management mechanism in which the government takes as the pilot , enterprises as the main body, and the standards organization as the platform, widely attracting manufacturers, universities, institutes and users to participate in standards Development;
- ◆ To continue research on technical standards in B3G 、 IPTV 、 RFID 、 mobile phone, home net, net security, wideband access, poor mass communication.
- ◆ To cultivate the multi-layer and multi-level talents of standardization which can meet the demand of home and abroad development ;
- ◆ To expand the exchange and cooperation with international standardization organizations.

Thank You !

