Mobile Phone as a key Component for FMBC realization

Dr. Yasuhiko ITO

Executive Vice President Technology, Chief Technology Officer

Member of the Board

KDDI CORPORATION

Why FMBC?

Telecom infrastructure used to support the Internet
→ The Internet supports Telecommunication

- Dissolution of media barrier among Fix, Mobile and Broadcast services through introduction of IP technologies

  --> Emergence of new business model!

- Collaboration with home appliances is a challenging theme for FMBC

- The appearance of mobile phone with DTV (digital television) capability will lead the way to FMBC realization

Bipolarization of services

- ◆ Big TV screen with HDTV quality at home, handy mobile phone while on the move

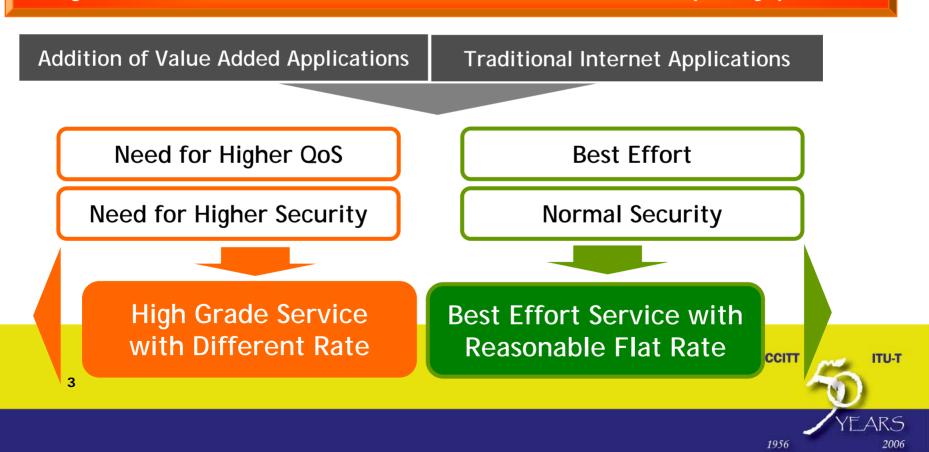- ◆ Service levels based on security, throughput etc...

Mobile communications technology will bridge between Broadband services and Broadcasting services

CCITT   ITU-T

YEARS

1956   2006

Bipolarization of Service Requirement in All-IP Era

■ Best Effort Type : Fixed Rate, Open, Traditional Internet Services (Mail, Web, Video)

■ High Grade Type : Guaranteed QoS. New Services (Teleconference, Bank Settlement, Business Application, Video etc.)

Congestion of P2P and Video traffic resulted in the capacity problem

Addition of Value Added Applications	Traditional Internet Applications

Need for Higher QoS	Best Effort
Need for Higher Security	Normal Security

High Grade Service with Different Rate

Best Effort Service with Reasonable Flat Rate

CCITT   ITU-T

3

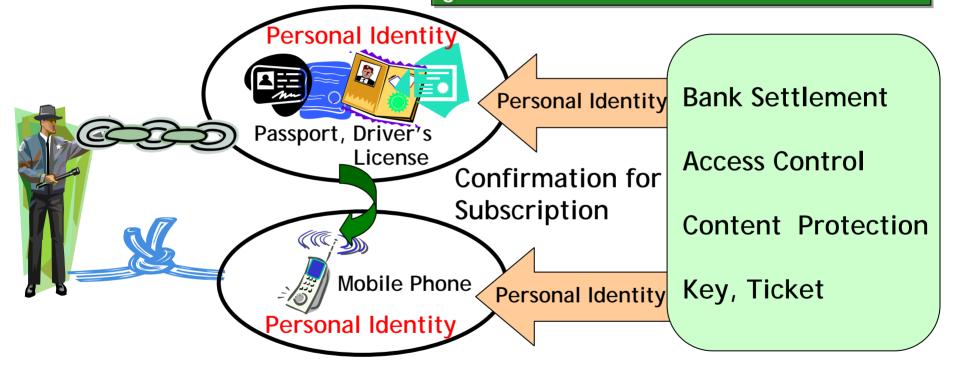# Mobile Phone as the best AUTHENTICATION TOOL

Everyone has Mobile Phone
Mobile Phone≒each PERSON

Mobile Phone is best suited for AUTHENTICATION TOOL
Various Business Model may be generated

Personal Identity

Passport, Driver's License

Personal Identity

Confirmation for Subscription

Mobile Phone

Personal Identity

Personal Identity

Bank Settlement

Access Control

Content Protection

Key, Ticket

Mobile phone will become a personal gateway and a remote controller for FMBC network society

Expectation for ITU-T

- ✓ Fixed, Mobile and Broadcasting Convergence (FMBC) has already started
- ✓ Standardization process needs to be orchestrated to meet the fast changing environment
- ✓ Many non-ITU activities such as IEEE802 are organized
- ✓ What kind of role-sharing is appropriate between ITU and other standard development organizations
- ✓ Separate business-oriented service and universal type service?

Need to establish quick and efficient working method

CCITT   ITU-T

YEARS
1956   2006