

License to converge

Muhammad Aslam Hayat
Consultant
aslamhayat@gmail.com



Agenda

- Convergence
 - Terminal and service
 - Convergence
 - Developments
 - Levels
 - Drivers
 - Regulatory challenges
 - Licensing challenges
 - Licensing options in convergence
 - Technology neutrality Vs service neutrality
 - Converged licensing regimes
 - Malaysia
 - India
 - Nigeria
 - Pakistan
 - Challenges and choices
-

Convergence?

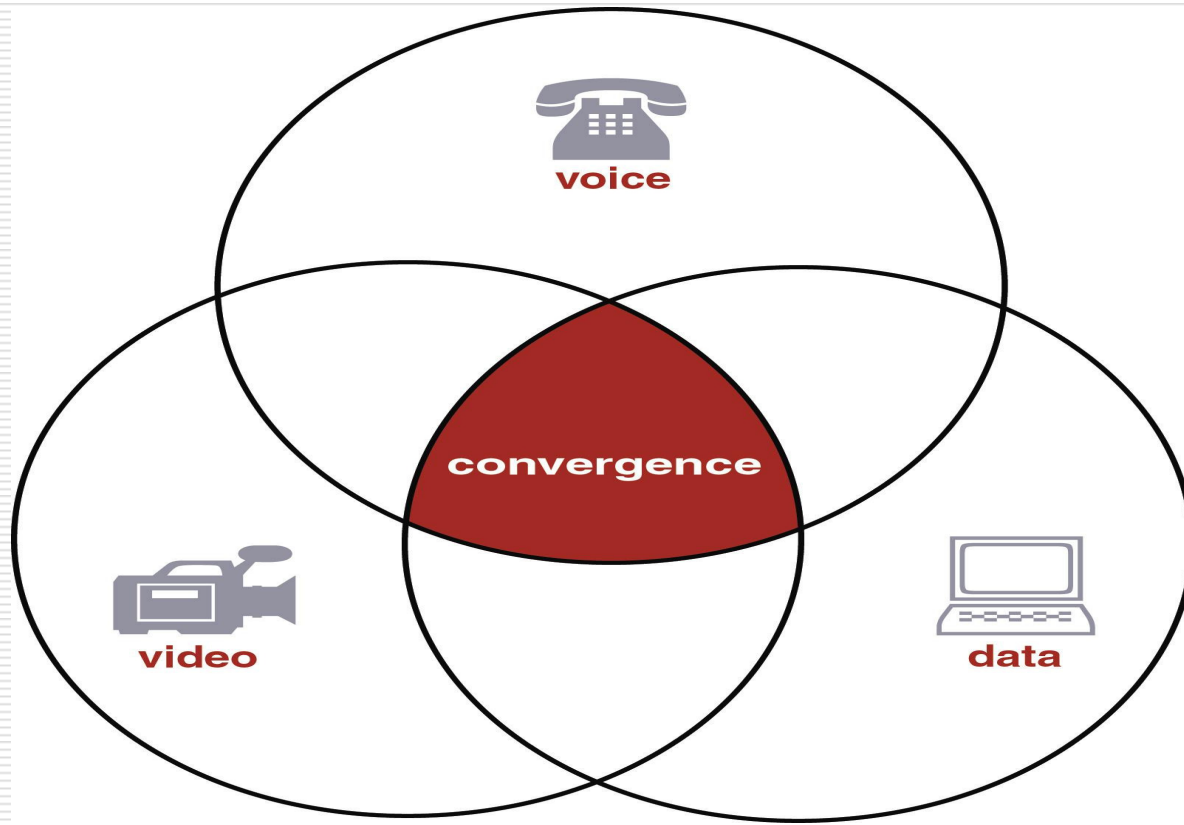
□ ITU:

- “..technological, market or legal/regulatory capability to integrate across previously separated technologies, markets or politically defined industry structures. It is basically the integration of three distinct sectors: IT, Telecommunication and Broadcasting”

□ European Union (EU):

- “.....the ability of different network platforms to carry essentially similar kinds of services, including the coming together of consumer devices such as the telephone, television and personal computing”
-

One terminal: any service



Convergence merges voice, video and data on a single network

Convergence – Developments

- Convergence of services
 - FMC

 - Convergence of networks
 - same services through different types of networks
 - e.g. UMTS, FWA and copper-based or optical wired networks

 - Convergence of markets
 - Overlap between markets, but each type of network still maintain their own market niche due to differences in technical capabilities and cost structures

 - Convergence of regulation
 - Difficult to maintain different rules in different sectors
-

Convergence – Levels

- Device
 - Combining multiple functions into a single device that accesses multiple services across multiple access technologies
 - e.g., smart-phones

 - Service
 - Combining multiple access-based services to create a unified user experience with a single service offering
 - e.g., FMC

 - Network
 - Combining separate networks and support systems to create a unified networking infrastructure
-

Convergence – Drivers

- Technology
 - Advancement in technology and innovation in devices

 - Industry-supply
 - Innovative products and services

 - Market-demand
 - Requirements of customers
 - Demand from Bangladeshi emigrants for m-payments

 - Policies/regulation
 - Government efforts for development of ICT
 - Regulators to keep pace and act as enabler
-

Converged licensing regimes

Country	Licensing regime
Australia	Carrier licence and carriage service providers
European Union	General authorisation regime
India	Unified licensing
Japan	Simple registration/ notification
Kenya, Malaysia, Mauritius, Tanzania	Converged licensing regime
Pakistan	Technology neutral licensing
Mali, Uganda	Converged licence for National Operators
Singapore	Facility-based and service-based licensing

Convergence – Regulatory challenges

- Legal and social challenges
 - Technical challenges
 - Licensing challenges
 - Frequency spectrum challenges
 - Competition challenges
 - Consumer protection
-

Licensing challenges

- ❑ Review of existing licenses
 - ❑ Possibility of multiple or unified licensing for existing service provider
 - ❑ Migration of all current licenses from old to new licence categories
 - ❑ License transitions process
 - ❑ License structure design and drafting
-

Licensing: continuously evolving

- Licensing if not evolving may become an obstacle to development of ICT market
 - Individual licenses to class licenses and general authorizations

 - Preserving onerous and complicated licensing requirements creates artificial barriers to market entry

 - In converged environment licensing regime should be such that
 - Does not prohibit deployment of latest technologies
 - New technologies should not be able to bypass regulatory system
-

Converged licensing

- Traditionally telecom regulation has provided different licenses for different services and technologies
 - Under convergence, regulatory regime have to facilitate dynamic development of technology and product markets
 - Allow flexibility in licensing framework for new services
 - Unlike old service-specific regime where new license categories had to be prescribed each time a new service or technology was developed
-

Converged licensing options

- Integrated license
 - One license for all services (Monopoly era)
 - Unified licenses
 - Unification of various license
 - Technology neutral licenses
 - Lets operator to decide best technology
 - Limitation of scarce resources
 - Service neutral licenses
 - empower operator to offer variety of different services and applications, tailored to fluctuations in market demand
 - Liberalized authorization/registration
 - Class licensing
-

Vertical converged licensing

- Network facilities
 - Authorize construction and ownership of communication infrastructure

 - Network services
 - Authorize operation of communication networks in order to deliver services

 - Application service
 - Authorizes reselling or procurement of services from network service operators

 - Content service
 - Authorizes provision of public content
-

Technology neutrality

- One of key goals in moving to a converged licensing framework is to achieve technology neutrality
 - Licensee retains ability to choose technology and equipment to provide licensed service

 - Technology-neutral licensing does not necessarily mean service neutrality
 - Best example of technology neutrality without service neutrality is when a mobile service license is issued but operator is allowed to choose whether to employ GSM or CDMA technology

 - Technology-neutral licensing regime provides a fair and predictable regulatory regime flexible enough to embrace technological and market developments
-

Service neutrality

- Regulators are increasingly moving to service-neutral licensing
 - This allows licensees to take cues from market as to which services are most in demand or most cost-effective
 - A generic license empowers operators to offer a variety of different services and applications
 - Converged licensing frameworks that incorporate technology and service neutrality increase scope of applications and services that any operator can provide, using its choice of technologies
 - Many countries have adopted converged licensing regimes
 - Australia, EU Member States and Malaysia
-

Malaysia

- **Objective:** Convergence across sectors and services
 - Malaysia's Communications and Multimedia Act 1999, paved way for convergence by introducing a technology and service-neutral licensing regime for telecom and broadcasting that reduced 31 service-specific licenses to four generic categories of licenses
 - Network facility providers
 - Network service providers
 - Application service providers
 - Content applications service providers
 - MCMC began migrating telecom and broadcasting operators to new licensing regime in 1999
 - This migration process was completed in 2002, and could offer some lessons
-

India

- **Objective:** Resolve mobility issue
 - India's moved towards a unified licensing regime mainly to handle one issue; mobility
 - In a consultation paper issued by TRAI proposed several unified licensing models
 - A unified access regime for fixed and cellular services was established in November 2003
 - both fixed and mobile service providers are free to offer their services using any technology
-

Nigeria

- ❑ **Objective:** Advancement of ICT development
 - ❑ Nigerian Communication Commission published a consultation document in February 2005 announcing intention to transit to unified licensing
 - ❑ Followed by series of seminars, consultations and responses from industry which culminated in final consultation document published on the 30th of January 2006
 - ❑ Unified Service License covers following services
 - Fixed Telephony (whether wired or wireless)
 - Digital Mobile Services
 - International Gateway Services
 - National Long Distance Services
 - Regional Long Distance Services
 - All Unified Licensees will be able to provide ISP, VAS and payphone services
-

Pakistan

- ❑ **Objective:** Service neutrality without unified licensing
 - ❑ Pre-2003
 - Integrated license in fixed
 - Tech specific in mobile
 - ❑ After liberalization
 - Technology neutrality
 - Operators allowed to apply for any category
 - Introduction of class licensing for VAS
 - ❑ In CVAS only two category
 - Voice
 - Data
 - ❑ Mobility row between mobile and WLL licensees
 - ❑ Deregulation policy under review
-

Converged licensing

Pros

- ❑ Leads to a conflict free ICT environment
- ❑ Enhances quicker rollout and growth of both wireless technology, broadband and internet
- ❑ Encourages free and easy deployment of new technologies and associated services in ICT sector
- ❑ Simplifies procedure of licensing telecom sector
- ❑ Ensures flexibility and efficient utilization of scarce resources

Cons

- ❑ Competition challenges increases
- ❑ Leads to cherry picking
- ❑ In the absence of deployment obligations no infrastructure investments
- ❑ Over-simplification reduces certainty
- ❑ Tendency seen of hoarding of scarce resources

Converged licensing (Cont...)

Pros

- ❑ Encourages efficient small operators to cover niche areas
- ❑ Enhances easy entry and level playing field for all operators
- ❑ Freedom to provide multiple services under single license
- ❑ Enhances economies of scale and greater efficiency as a result of optimum sharing of infrastructure and resources
- ❑ Meets consumer expectation of one-stop service availability

Cons

- ❑ Smaller operators would be crushed by bigger operators
- ❑ Both fixed and mobile spectrum with one operator reduces possibility of new entrants
- ❑ Increased chances of bundling
- ❑ Economy of scales makes it difficult for small operators to survive
- ❑ Reduces customers choice

Challenges and choices

- While introduction of more flexible and straightforward licensing regimes is clearly the trend today

 - Regulators are confronted with a large number of challenges and choices towards this ideal
 - adoption of a converged licensing model
 - spectrum management
 - setting of license fees
 - ensuring a level playing field
 - pursuit of public policy goals including universal access
-

Migration to new licensing framework

- One of main challenges in transforming into new licensing framework is migration of old licenses to new licenses

 - Regulator must consider
 - existing telecom infrastructure and investment
 - license durations
 - existing licensees
 - current development in market
 - stopping issuance of licenses based on old framework
 - Replacing old licensing framework with new framework
 - no licensee old or new should be given unfair advantage
 - no piecemeal migration
 - migration should be voluntary until license term ends
-

Some selected references

- Convergence & Multiple Service Authorizations in ICT Regulation Toolkit
 - Available on-line: <http://icttoolkit.infodev.org/en/Section.735.html>
 - Indian draft and final unified licensing recommendations
 - Available o-line: <http://www.ictregulationtoolkit.org/en/Document.657.html> &
 - <http://www.trai.gov.in/trai/upload/recommendations/28/Recomodifiedfinal.pdf>
 - Nigerian unified licensing framework
 - Available on-line: <http://ncc.gov.ng/index4.htm>
 - Towards an era of unified licensing in Nigeria Ernest C. A. Ndukwe of Nigerian Communications Commission
 - Available on-line:
http://www.ncc.gov.ng/speeches_presentations/EVC's%20Presentation/TOWARDS%20AN%20ERA%20OF%20UNIFIED%20LICENCING%20IN%20NIGERIA.pdf
 - Malaysian Communication and Multimedia Commission: <http://www.skmm.gov.my/>
 - Pakistan's de-regulation and mobile cellular policies
 - Available on-line: http://www.pta.gov.pk/index.php?option=com_content&task=view&id=381&Itemid=348
-