Patents & Standards WIPO Seminar

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INTRO - PROBLEM STATEMENT

 The growth and innovation which have characterised the mobile telecommunications industry rely heavily on patented technology and industry standards.

 As complex multi-party technology has evolved, the competitive market for patented technology has not and does not function properly. The end-user is paying for this malfunctioning.

 For the mobile telecommunications industry to remain competitive, the fundamental benefits of a competitive market must be restored, both by market parties and public decision makers.



THE CONTEXT

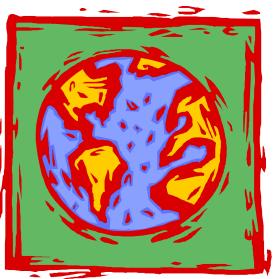


Basic Mobile Industry market mechanics

- Ubiquitous global mobile telecommunications depends on standardised technology
 - European regulatory drivers.
 - -Spectrum licences linked to technology.
 - Pressures to adopt the same technology in other markets.
 - -To enable global roaming.
- Global market scale drives demand for multivendor involvement
 - Circa 2.5Billion subscribers.
 - Terminal and Infrastructure manufacture at market scale requires multi-vendor engagement



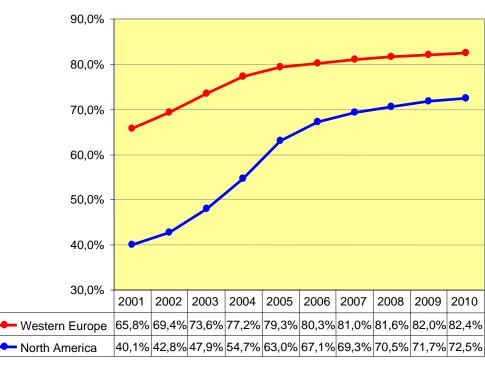
- The consumer offering is;
 - Global access to personal voice and data services through a "fashion accessory".
 - Complex technology delivering easy access to substantially consistent services.



Every one has a mobile, many supplied by Vodafone

- Ubiquity/accessibility (Global standards)
- Globalisation (roaming, availability in developing markets helping to boost economic development)
- Innovation (technology, services, applications, tariffs (prepaid))
- We sell the mobile services as well as mobile handsets to customers, for which we deploy networks.

Penetration rates in two regions



Source: Strategy Analytics (2005)

We speak as a holder of patents and as a user of patents.



Patents are key for mobile

- We support the recognition of innovation;
 - It must be rewarded to reflect and encourage continuing investment;
 - Innovation must be genuinely inventive and compatible with good functioning of the market.
- For W-CDMA technology (3G) in mobile devices & infrastructures, hardware & software.
 - 2000+ patent families declared around 3G (W-CDMA) technology;
 - comprising 6000+ individual patents from some 50 companies and consortia.
- With many contributions comes a need for many rewards



Mobile industry's patent requirements

The Mobile telecommunications industry patent requirements can be different to other industries:

Mobile

Pharma

Patents are essential to drive innovation.





Patents must support technology vendor collaboration.



 Complex cross licensing is essential to support market scale.



 Selection of a common standard encouraged by regulatory initiatives and consumer expectations of interoperability.



A complex mix of consumer expectations, regulation, market scale and homogenous technology drives particular issues.

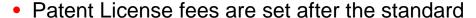


THE ISSUE



The competitive market is not working properly Consumer price and innovation suffer

- There is no "competitive" market for technology in standards.
 - Vendors and Operators MUST use the standard in Europe .
- Technology is selected before the standard
 - Technology is developed by committee of all parties
 - Parties are Required to indicate when they are contributing patented technology.....BUT
 - There is no sanction for failure to notify
 - There is no obligation to notify new claims not yet granted.



- Technology vendors negotiate bi-lateral deals
- Total licence costs remain an unknown until some years after the standard is set
- Within the standard there is no competitive market for patent fee levels
- In Europe there is no alternative to the standard inside managed spectrum
 - No price competition and no innovation initiative.
- Conflict resolution is in the courts

FRAND does not work without competitive pressures to regulate the term "reasonable"



Specific issues

- Patent speed does not match Market speed
 - 18 months from claim to grant is too slow
 - -Technology developers have to work with uncertainty
 - -Patent applications not even published, let alone granted, when evaluating adoption of technology.
- No visibility of associated IPR license costs.
- Jurisdictional differences
 - USA Triple Damages rule for willful infringement
 - -Ignorance is the best defence!
 - -Creates and sustains "blind spots" for technology licensors
 - -Encourage large numbers of lower quality patents.



Multiple Patent jurisdictions always apply

- Roaming affects all operators regardless of where the business is based.
 - All patent jurisdictions apply all of the time.



- IPR regimes' designs differ across regions:
 - e.g. first to invent vs. first to file, grace period for first filing, software and business matters protectable in US, no effective patent challenge procedure in US/JP PTO.
- IPR regimes' implementations also vary across jurisdictions:
 - even in Europe, the same patent will be subject to different interpretation and examination.
 - Many granted US patents are not even filed in Europe as simply unpatentable subject matter.
- As quality of patents granted is variable, we end up in numerous infringement cases. It creates legal uncertainty and delay.



Overall consumers costs from IPR are rising

- Cumulative IPR fees from multiple standards technologies
 - GSM + W-CDMA + ?
 - Competition did not work so no downward price pressure
- Rising functionality is significantly increasing patent volumes
 - Media codecs, MP3, MPEG 4, H264 increase IPR costs
- OMA DRM example
 - A Patent ambush in a standards body resulted in
 - -Delay in adoption of the standard
 - -Higher terminal costs
 - -Greater progress of a higher cost proprietary technology
- Legal uncertainty creates risks to the business.
 - We can manage risks (that is what a business is about) but it ultimately raises costs – which are born by customers.



POSSIBLE REMEDIES



Vodafone suggested outcomes

- Reconcile protection of genuine innovation and proper functioning of competition thanks to:
- Greater transparency of licensing terms to allow the market to work properly
- Earlier transparency of relevant patents to create legal certainty and allow risk assessment and technical/business decisions
- Greater quality to be able to determine what is a relevant or not a relevant patent



What we have done about it?

With the industry

- talk to vendors individually (they are our commercial partners, we are their customers); and
- within the operator led GSM Association and the NGMN initiative (collective + bilateral approach).

With SDO

 in ETSI, reform of IPR engaged a year ago is progressing. Slow (but we expected it), however tangible results support the increase of IPR transparency.

With public decision makers

- EU Commission (input to consultation on patent regime reform);
- WIPO today!



How can policy makers help?

Greater transparency

Promote the use of strong disclosure policies by SDO

Earlier transparency

- Support the adoption of early publication rules (less than 18 months!)
 by SDO
- Foster faster processes to produce patents and patent decisions

Greater quality

- Harmonise protection regimes and interpretation practices
- Grant quality patents, not numerous patents, to promote innovation



Thank you!

