New approach to regulation of fixed and mobile networks

Relevant Markets International Forum of CRC: "Challenges of the Relevant Market Regulation for Telecommunications Networks and Services", Bogota, 15 June 2012

Dr. Ulrich Stumpf



Overview

- 1. Why review ex ante regulation of fixed and mobile networks?
- 2. How adapt *ex ante* regulation of dominant operators?
- 3. Give symmetrical *ex ante* regulation greater emphasis?

A European perspective



1. Why review *ex ante* regulation of fixed and mobile networks?



Ex ante regulation must be adapted to multiple technological & commercial developments

NETWORKS

NGN core netwoks

VDSL & fibre access networks

DOCSIS 3 upgraded cable networks

LTE networks

Migration to NGN/NGA networks

Investment incentives

RETAIL SERVICES

Ultrafast Internet access connections

New applications and services (e.g. IPTV, OTT)

Partial convergence of fixed & mobile services

Differentiation of residential & business-graded services

Widespread bundling of services

Competition

WHOLESALE SERVICES

Unbundled access to VDSL & fibre networks

Wholesale broadband access to VDSL & fibre networks

Ethernet based dedicated capacity

IP interconnection

Migration to NGN/NGA wholesale services

Access remedies

2. How adapt ex ante regulation of dominant operators?

Regulated markets/operators

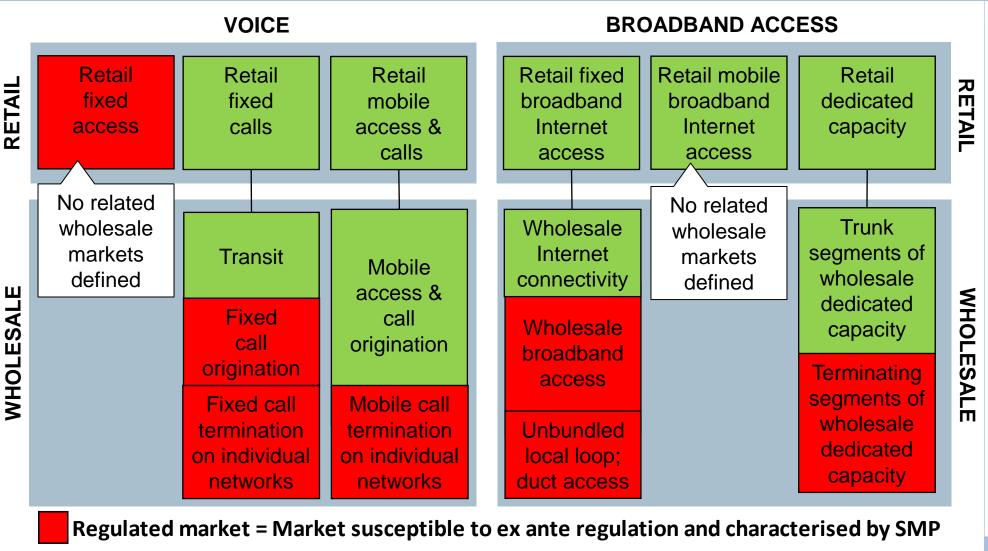


Focus on, and principles of, ex ante regulation of dominant operators remain untouched

- 1. Targeted at competition problems related to dominance
- 2. Limited to electronic communications markets characterised by
 - Persistent barriers to entry
 - No tendency towards effective competition
 - Ex post application of competition law alone not sufficient
- 3. No regulation at retail level if wholesale regulation is enough



Current ex ante regulation of dominant operators concentrates on voice & broadband access



Unregulated market

Ex ante regulation for voice can be reduced

- 1. New retail market boundaries for voice
 - Fixed access & calls a bundle (voice)
 - VoIP a substitute for voice over PSTN
 - Mobile voice a partial substitute for fixed voice (residential customers)
 - Differentiation of business from residential services
- Retail voice markets competitive subject to regulation of call termination on fixed & mobile networks



Ex ante regulation for broadband access must be maintained

- New retail market boundaries for broadband Internet access
 - Ultrafast broadband (fibre/VDSL/DOCSIS3) a chain substitute for standard broadband (ADSL)
 - LTE a substitute for fixed broadband access, where enough capacity (residential customers)
 - Differentiation of business-graded services (faster/more reliable, multi-site) from residential services
 - Convergence of business-graded broadband access and dedicated capacity



Ex ante regulation for broadband access must be maintained

2. Platform competition alone is not effective, except in few countries (Romania with lots of overground wiring)







Ex ante regulation for broadband access must be maintained

- Usually, retail broadband access markets will only tend towards competition subject to continued wholesale regulation
 - Unbundling of fibre and VDSL networks and, where not technically or economically feasible, virtual local access
 - Wholesale broadband access (except possibly for residential customers)
 - Terminating segments of wholesale dedicated capacity

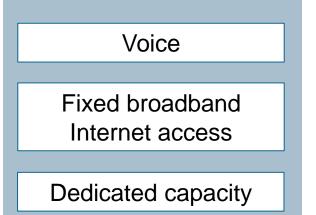


GRADED, MULTI-SITE

Bundling may require new ex ante regulation

1. Longer term trend towards separate retail markets for bundles (are we already there?)

Voice Fixed broadband Internet access TV/OTT Mobile



Mobile

BUSINESS BUNDLES

2. Need to regulate wholesale access for all components?

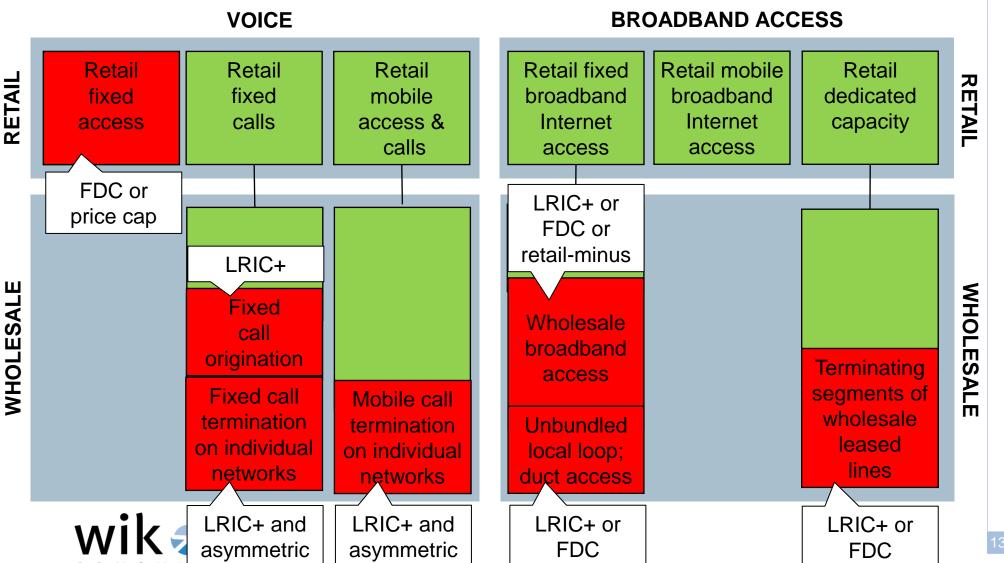


2. How adapt *ex ante* regulation of dominant operators?

Regulatory measures



In the past, most ex ante regulation included cost oriented prices based on LRIC+ or FDC



To avoid overcompensation, wholesale charges need to be reviewed

- Cost orientation to be based on efficient networks (the Modern Equivalent Asset)
 - > Fixed and mobile call termination: NGN
 - ➤ Unbundling: Fibre access
 - Wholesale broadband access: Fibre access/NGN



To avoid overcompensation, wholesale charges need to be reviewed

- Cost orientation to be based on LRIC
 - Fixed and mobile call termination: Pure LRIC in EU, but non-EU countries may go for LRIC+
 - Fibre unbundling: LRIC+
 - Copper unbundling: LRIC+ of fibre less performance delta between fibre and copper
 - Wholesale broadband access: LRIC+ or retail-minus
- Glidepath to target levels

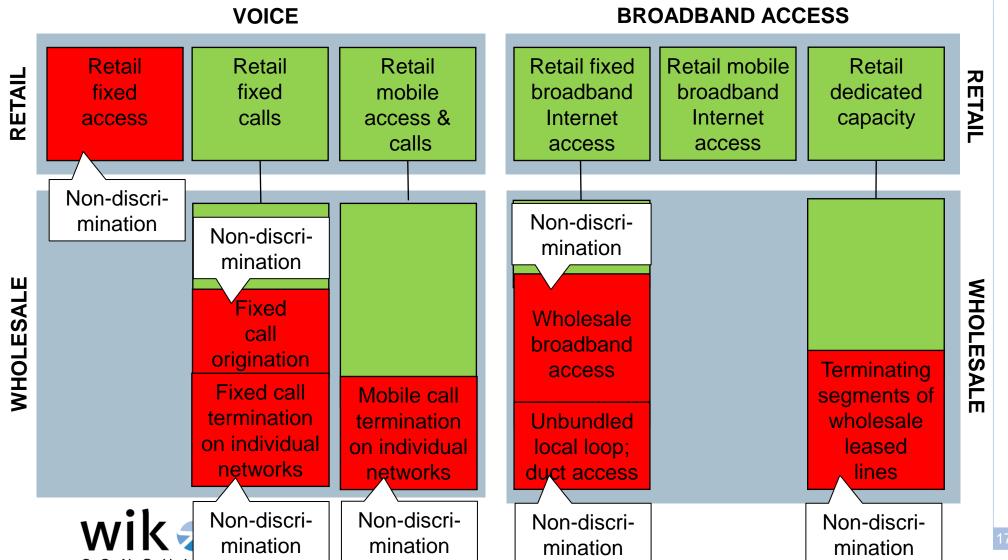


To avoid foreclosure, bundles need to be tested for margin squeezes

- 1. Margin squeeze tests for individual products alone do not allow to capture margin squeezes on bundles
- 2. Need to test bundles for margin squeezes ex ante
- 3. A competitor should be able to cover the costs of wholesale inputs plus its own downstream costs
- 4. Downstream costs of a reasonably efficient competitor *versus* equally efficient competitor?



Current ex ante regulation of dominant operators includes non-discriminatory terms of access



To avoid foreclosure, non-discrimination needs to be implemented much more effectivley

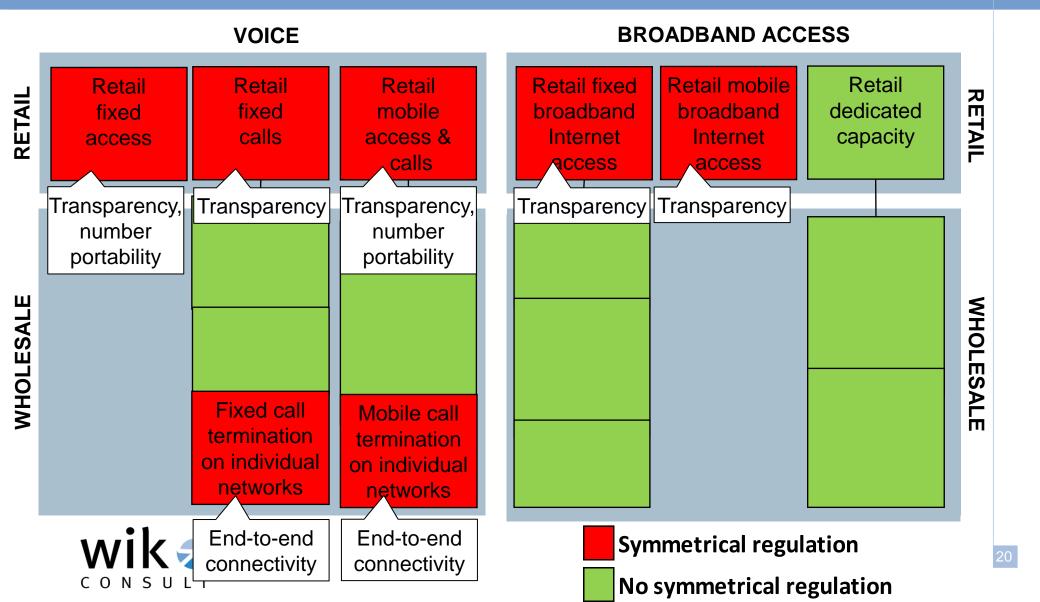
- 1. Unbundling, wholesale broadband access, terminating segments
 - ➤ Need to ensure equivalence of access, including in delivery & fault repair
 - > Functional separation as a measure of last resort
- 2. Transmission of third-party VoIP and other retail applications
 - > Need for minimum quality standards against blocking/throttling
- 3. Call termination and IP interconnection
 - Discrimination less of a concern where there is reciprocal traffic exchange



2. Give symmetrical *ex ante* regulation greater emphasis?



Past symmetrical ex ante regulation focused on transparency & end-to-end connectivity



Symmetrical ex ante regulation provides a complementary instrument to promote a variety of objectives

- Ensure interoperability of services and end-to-end connectivity
- 2. Address market power independent of dominance
- 3. Avoid economically inefficient or physically impracticable duplication of access infrastructure to end-users
- 4. Promote net neutrality
- 5. Raise transparency and reduce switching costs
- 6. Protect the environment, public health, public security or to meet town and country planning objectives

All of these targets gain increasing importance

Address market power independent of Price caps for retail & dominance wholesale intern'l roaming MVNO access for wholesale Address market power independent of internat'l roaming dominance Avoid economically inefficient or physically Sharing of in-building wiring, impracticable duplication of access (France, Spain, Portugal) infrastructure to end-users Infrastructure sharing & Protect the environment, public health, public co-investment security; meet town/country planning objectives Promote net neutrality Minimum quality levels for network transmission services Transparency obligations Reduce switching costs, promote net neutrality for transmission of applications

CONSULI

New approach to regulation of fixed and mobile networks – At the cross-road







Muchas Gracias por su atención!





D. Ulrich Stumpf

wik-Consult GmbH
Postfach 2000
53588 Bad Honnef
eMail u.stumpf@wik-consult.com
www. wik-consult.com

