NGN Access

Results of public consultations and directions

Press conference of 28 November 2007
Context

Sharing of the last part

Access to civil engineering

Conclusion
The regulation of broadband has encouraged investment by all operators

- Competition through infrastructures is the main impetus behind the development of broadband:
  - the geographic extension of local loop unbundling has encouraged France Telecom to equip all of its MDF (Metallic Distribution Frames) for ADSL
  - France has joined European leaders in terms of penetration...
  - ...and is in first place for "triple play"

- Regulation has made this increase in investments possible
  - local loop unbundling gives operators technical and economic control
  - "bitstream" serves as a geographic complement

- Municipal intervention assists this dynamic in low density regions
Very high bandwidth opens a new investment cycle

- Very high bandwidth is an inescapable technological evolution in the medium term
  - to meet growing demand for content
  - to assist the concomitant rise in speeds

- Major players have announced fibre deployments
  - with respect to other European countries, the challenge here is to bring the fibre as close to the subscriber as possible (right to the base of the house or building)

- Investments are significant and will need to be spread over several years
  - several hundred euros per connectable home
  - at a rate of one to two million homes per year

- The concern is to ensure that this investment is borne by all operators as much as possible
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Conclusion
For all players, access to buildings is the main problem

- Fibre deployment to the home means that private properties have to be equipped
- Operators are prepared to bear the cost of this installation in the centres of major cities
- However, condominium owners, landlords and building managers fear that monopolies will be created by building or neighbourhood
  - they want to limit the number of agents in common areas...
  - ...but want to be able to choose their operator, without having to move house
- So, sharing among operators is necessary
  - the first operator installs the fibre in the building then gives other operators access to its network
- In practice, operators have not yet applied sharing
Legislative measures are needed

- The current framework doesn’t include sharing
  - Condominium owners and landlords can demand it from the operators contacting them...
  - ...but it is often difficult to establish the means or verify its application

- Regulation appears to be a relevant tool, which the law could assign to ARCEP
  - require operators to share the last part of their fibre network
  - make ARCEP responsible for defining clear means of sharing and guarantee operators respect them
  - this would be like extending “symmetrical” regulation (obligations applicable to all operators), which is currently limited to interconnection

- A balance needs to be found between operators’ rights and obligations, so that fibre deployment in buildings can be simplified
  - “antenna rights” could be extended to fibre
  - in new buildings, pre-equipment standards will have to be changed in the medium term
Means of sharing must encourage competition through infrastructures while answering short-term concerns

- The base-of-building sharing option appears necessary...
  - target option of competition through infrastructures on the horizontal part and sharing inside buildings
  - complementing access to civil engineering

- ...but alone is not sufficient in the start-up phase
  - probable differences among operators in their deployment plans
  - uncertainties concerning the timetable and access possibilities to France Telecom’s civil engineering
ARCEP is initiating technical work with operators

- Operators will have to allow sharing:
  - for the long term, at the base of building
  - temporarily, at the optical distribution frame
    - to limit the risk of local monopolies...
    - ... while encouraging investment

- ARCEP is now initiating multi-lateral work to discuss how sharing can be done...

- ... and will issue recommendations for landlords and building managers
  - practical guide
  - model agreement

- The goal is to anticipate the “symmetrical” regulation framework and to provide guarantees so that fibre can be installed in buildings
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Conclusion
Alternative operators require access to civil engineering

- For an operator deploying a very high bandwidth network, access to existing civil engineering changes the economic equation considerably.

- All operators are not on an equal footing:
  - Alternative operators can deploy only in limited cases like Paris, where sewers can be visited and pass under every building.
  - France Telecom deploys optical fibre in its civil engineering ducts inherited from the former monopoly.
  - Numericable is progressively replacing coaxial cable with optical fibre.

- France Telecom’s ducts are an essential infrastructure.

- Access to France Telecom’s civil engineering must be guaranteed to allow all operators to invest.
France Telecom’s civil engineering has availabilities

- ARCEP has audited France Telecom’s ducts in some ten cities
- The audit shows that civil engineering is available ...
- ...although availability is heterogeneous...
- ...and will depend on engineering rules, in particular for desaturation

Example of civil engineering availability in a neighbourhood in Nice
Regulation of France Telecom’s ducts has been initiated

- The regulation framework is that of the market analysis
  - to guarantee access to the essential infrastructure: France Telecom’s civil engineering
  - the new Commission recommendation includes ducts regulation

- France Telecom has announced that it will publish a duct offer...
  - by the end of the year
  - the offer’s principles are encouraging

- ...although experience shows that operational aspects are crucial for a wholesale offer to work on the ground...
  - multi-lateral work begun in October is progressing well
  - experiments are about to begin

- ...and time will be needed to move from a “paper” offer to an actual one

- ARCEP will be vigilant to ensure that all operators have access quickly to civil engineering under equivalent conditions
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Access to civil engineering

Conclusion
The measure includes two tools, which can be adapted to market developments

- Two tools are needed
  - regulation of the ducts inherited from the former public monopoly, which concerns France Telecom (“asymmetrical” regulation)
  - sharing of the last part of the fibre networks, which concerns all operators (“symmetrical” regulation)

- A good balance needs to be found between encouraging investment and preventing the creation of local monopolies
  - the initial situation is different with respect to the regulation of broadband because France Telecom’s dominant position is on the civil engineering and not on the local fibre loop
  - there is very little feedback from Europe, given France’s head start in deploying fibre to the home

- ARCEP will evaluate this measure in one year
  - France Telecom’s wholesale civil engineering offer
  - the implementation of sharing
  - based on operator deployments on the horizontal and vertical parts
Work will take shape in 2008

- Legislative measures are needed for access to buildings and the obligation to share the last part
- ARCEP is launching technical work to implement sharing and will issue recommendations for landlords and building managers
- Access to France Telecom’s civil engineering has now entered the operational stage
- The measure will be evaluated in one year
Municipalities can play a key role

- In recent years, municipalities have played a key role in the digital development of their regions

- Their intervention can be just as essential on very high bandwidth
  - by providing local information: site surveys and geographic information systems for public land
  - on civil engineering: by coordinating work, laying remaining ducts and authorising lightweight civil engineering
  - on the last part: with social landlords, by authorising wiring on facades and encouraging pre-fibring in new buildings and major renovations
  - cities wired under public service delegations have an essential asset for very high bandwidth

20,9 millions homes (64% of population) covered by LLU in June 2007

4,1 millions homes (988 unbundled MDFs)

16.8 millions homes (1686 unbundled MDFs)
The goal of having several operators cover a major part of the country can be met in the medium term.