



Case Study: Clix



The First Network in Europe Deployed in UMTS TDD Unpaired Spectrum

Portugal

Recently Clix, the leading Portuguese ISP, announced that it had suspended sales of ADSL to any new customers because of the incumbent's lock on DSL services. While fighting for regulatory action to level the DSL playing field, the company decided it could better compete by launching a broadband service that is as fast or faster than DSL, but offers the added benefit of full mobility. With a UMTS TDD-based network from IPWireless deployed over the WCDMA infrastructure of its sister company, mobile operator Optimus, Clix launched a market trial in Lisbon that gives subscribers a high-speed Internet access service that will work from home, work, or on the road, all without wires. This joint effort marks the first announced 3G network in Europe that utilizes the unpaired IMT 2000 spectrum that is specifically allocated for UMTS TDD technology. Eventually, it is envisioned that Clix, Optimus, as well as Novis, parent company Sonaecom's fixed line operator, would utilize the UMTS TDD platform to offer a range of innovative portable, mobile, and fixed data and voice services for consumer and business customers.

Coverage:

In the first quarter of 2004, Clix began a market trial in Lisbon to confirm the appeal of the services to subscribers. If trial subscribers respond as positively as expected, Clix plans on initiating a national rollout of the service.

Spectrum:

5 MHz of national frequencies in 1900 MHz band.

About the technology:

UMTS TDD, the member of the 3G family of standards that is optimized for high-speed data, has emerged as the leading global standard that can be used by operators and manufacturers worldwide for mobile broadband. Operators in countries around the world including Australia, Germany, Malaysia, New Zealand, Portugal, South Africa, the United Kingdom and the United States, have deployed UMTS TDD solutions from IPWireless.

*“ It can compete **eye-to-eye with DSL**, and it offers mobility.*

*It is **very stable, very robust** and **very ready to deploy** compared to other alternative technologies we're evaluating. ”*

*Pedro Pina, CEO, Clix
as quoted in industry publication 3GMobile*