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## STATISTICAL INDICATORS IN HIGH-SPEED NETWORKS

The *Autoridade Nacional de Comunicações* (ANACOM) determined last 27 May and in a draft decision to approve the statistical indicators to be submitted to this Authority on a quarterly basis by the network operators and providers of high-speed electronic communication services. The draft decision indicates

that the operators/providers should regularly send this information as from the second quarter of 2010. If unavailable, they should submit estimates for the figures in question and send the definitive data in the quarter after the company's accounts for the year concerning the statistics are closed. (+)

## BWA AUCTION – ONITELECOM PAYMENT DEADLINE EXTENDED

By determination dated 10 May, and following the application submitted by Onitelem, ANACOM extended until 30 June the deadline for the company to deposit the final price set in the auction to allocate frequency usage rights for broadband wire-

less access (BWA). It was also decided that this period could not be extended, with the surety to be forfeited if the deposit is not made within the set deadline. (+)

## ANACOM SEMINARS – 27<sup>TH</sup> MEETING

The 27<sup>th</sup> meeting in the ANACOM Seminars series was held on 24 June in Lisbon, at 3:30 p.m. It included a presentation on "Dematerialisation of Public Administration Processes" by Luís Vidigal, a member of the Association for the Promotion and

Development of the Information Society (APDSI). Participation in the seminar was free of charge though subject to prior registration via the email address [seminarios@anacom.pt](mailto:seminarios@anacom.pt). (+)

## NEW INFRASTRUCTURES IN BUILDINGS SYSTEM – SEMINARS

ANACOM plans to hold a cycle of seminars on the new legal framework governing telecommunications infrastructures in buildings (ITED) and in housing estates, urban developments and groups of buildings (ITUR), as well as the respective tech-

nical standards manuals. The events will be held in Coimbra on 30 June and in Évora on 6 July. Participation is free of charge though subject to prior registration online. (+)

## MARKET 7 – FINAL DECISION

ANACOM approved last 18 May the final decisions on the wholesale markets for voice call termination in individual mobile networks (market 7 of European Commission Recommendation 2007/879/EC of 17 December), as well as the corresponding price control obligation. This Authority determined that regardless of call origin, the maximum termination prices

for voice calls in mobile networks to be applied by the three notified mobile operators with significant market power (SMP) – Optimus, TMN and Vodafone – should progressively drop from 6 euro-cents on 24 May 2010 to 3.5 euro-cents on 24 August 2011. ANACOM also received the opinion of the Competition Authority and comments from the European Commission. (+)

# COMMUNICATIONS IN PORTUGAL

## NEWS

### UNIVERSAL POSTAL SERVICE - 2010 PRICE TABLE

By determination dated 27 May, the *Autoridade Nacional de Comunicações* (ANACOM) decided not to oppose the entrance into force of the price table for universal service (which covers reserved and non-reserved services), to be in effect as from 1 June 2010, presented by CTT-Correios de Portugal (Portuguese postal service) under the Universal Postal Service Price Convention. (+)

### CTT DIRECT MAIL AND GREEN MAIL - PRICE TABLE

By determination dated 28 April, ANACOM decided not to oppose the entrance into force of the prices CTT-Correios de Portugal has proposed for the new ecologic range of Direct Mail (addressed advertising) and Green Mail services. This ANACOM decision is based on the understanding that CTT, per the company's cost accounting system, will ensure fulfilment of the orientation to costs principle for these new services. (+)

### POST OFFICE NETWORK - 2009

The 2009 report on the post office network of the universal service concessionaire, CTT-Correios de Portugal, is now available. The document reveals the existence of 2,890 operational postal establishments, 17 more than at the end of 2008. The report also indicates that all counties have at least one post office. Compared to the situation in the European Union (EU) and based on data provided by the Universal Postal Union referring to 2007, Portugal continues to register positive figures compared to the EU average, in terms of both coverage and postal density. (+)

### UNIVERSAL POSTAL SERVICE - PRICE CONVENTION

ANACOM approved last 6 May the draft decision on a modification of the Universal Postal Service Price Convention, dated 10 July 2008, which was submitted per the legal terms to a prior hearing of organisations representing consumers and the Directorate-General for Consumers.

### MADEIRA - QSI DEDUCTION IN POSTAL RECORDS

ANACOM decided last 27 May to grant the request of CTT-Correios de Portugal to deduct from the records expedited normal mail, priority mail and packages directly affected by the sudden flooding in Madeira in February 2010, in all flows to and

from this autonomous island region, for effects of calculating the quality of service indicators (QSI) defined in the Universal Postal Service Quality Convention of 10 July 2008. (+)

### 26<sup>TH</sup> ANACOM SEMINAR PRESENTATION

The presentation on "Regulating Next Generation Access Networks" given by Martin Cave, a professor at Warwick Business School at the University of Warwick in the United Kingdom, at the 26<sup>th</sup> ANACOM seminar held last 21 May in Lisbon has been posted online. The presentation is the sole responsibility of its author and neither binds nor conveys any position of ANACOM. (+)

### TITLES REVOKED BY ANACOM

ANACOM has revoked the following titles: the registration of AR TELECOM to offer audiotext services; the registration of Média Capital to offer value-added services and the registration of Gustavo Manuel Dias da Costa Martins to offer audiotext services.

### STANDARD CONTRACTS APPROVED

ANACOM approved the standard contracts of Nacacomunik for the resale of telephone services and of CYCLOP NET to offer internet access services.

Likewise approved were the standard contracts of Tele Larm to provide data transmission services, of PT Comunicações to offer electronic communication services, of AR TELECOM to offer electronic communication services and of CLARA.NET to provide internet access service and the service of resale of fixed telephone service provision. (+)

### DECLARATIONS ISSUED BY ANACOM

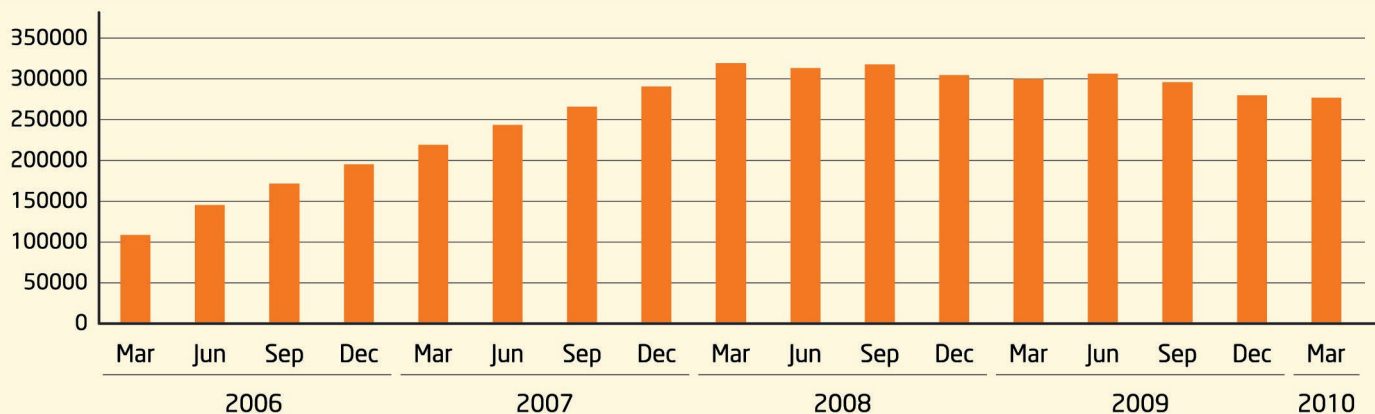
By order dated 14 May, ANACOM issued a declaration allowing the company Pinkhair - Unipessoal, Lda., to offer a public electronic communication network and internet access service. (+)

### "ITUR" MANUAL - RECTIFICATION

By determination dated 6 May, ANACOM approved the correction rectifying various errors on pages 50, 63 and 64 of the Manual for Telecommunications Infrastructures in Housing Estates, Urban Developments and Groups of Building (ITUR is the Portuguese acronym).

## EVOLUTION OF NUMBER OF UNBUNDLED ACCESSES

2006				2007				2008				2009				2010
Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar
108794	145614	172082	195754	219653	244068	266536	291175	319908	314034	318374	305244	300822	307153	296609	280518	277507



## "BEST LETTER" FOR 2010 - COMPETITION RESULTS

Catarina Alexandra Gomes Moreira, from Junqueira in Vila do Conde, in the first category (9-11 years old), and Patrícia Sofia Sousa Florindo, from Mourisca do Vouga in Trofa, in the second category (12-15 years old), won the 2010 Letter-writing Competition, an annual Universal Postal Union (UPU) initiative promoted in Portugal jointly by the *Autoridade Nacional de Comu-*

*nicações* (ANACOM) and CTT-Correios de Portugal (Portuguese postal service). This year's theme topic was "Explain why it is important to talk about AIDS and to protect yourself against the disease". The winning letter from the second category will represent Portugal at the international letter-writing contest organised directly by the UPU. (+)

## PORTUGAL SIGNS ECPs FOR WTDC-10

As the Portuguese administration's representative to the International Telecommunication Union (ITU), a specialised United Nations agency, ANACOM recently signed the European com-

mon proposals (ECPs) to be defended at the ITU World Telecommunications Development Conference (WTDC), held from 24 May to 4 June 2010 in Hyderabad, India. (+)

## NEWLY ENACTED LEGISLATION

**Decree-Law no. 56/2010** (Series I - Diário da República of 1 June) - Sets limits on the amounts charged for provision of the service to unblock equipment used to access electronic communication services, as well as for cancelling a contract during the loyalty period, thus guaranteeing the rights of electronic communications users and promoting more competition in the sector.

**Announcement no. 4005/2010** (Series II - D.R. of 3 May) - Concerning the citation of opposing parties in case no. 1120/09.1BEPRT, currently under way in the 1<sup>st</sup> Organic Unit of the Porto Administrative and Fiscal Court, in which Sonaecom is suing ANACOM in the acts of special administrative action for partial cancellation of the determination dated 14 January 2009, concerning definition of product markets and geographic markets, SMP assessment and the imposition, maintenance, amendment or withdrawal of regulatory obligations in the markets for the wholesale supply of (physical) access to network infrastructure at a fixed location and for the wholesale supply of broadband access.

**Notice no. 8618/2010** (Series II (Part E) - D.R. of 30 April) - Concerning the report on the quality system for the universal postal service provided by CTT-Correios de Portugal, referring to 2008.

## DETERMINATIONS ADOPTED BY ANACOM IN THE 1<sup>ST</sup> QUARTER OF 2010

DATE	DETERMINATION
31.03.10	ANACOM public tender - award of contract to lease 10 vehicles (+)
31.03.10	Radiomóvel authorised to offer nomad broadband services (+)
31.03.10	Modification of GSM and UMTS licences (draft) (+)
31.03.10	CTT quality of service levels (audit) - 2008 financial year (+)
31.03.10	NFAP 2009/2010 (closed consultation) (+)
17.03.10	Public tender to lease 3 vehicles (+)
17.03.10	Authorisation to GIGANTEXPRESS to provide postal services (+)
15.03.10	Declaration to Fibroglobal to offer a public electronic communications network (+)
15.03.10	Declaration to DStelecom Alentejo e Algarve to offer a public electronic communications network (+)
15.03.10	Declaration to DStelecom Norte to offer a public electronic communications network (+)
10.03.10	Approval of ITED-ITUR evaluation procedures (+)
10.03.10	Modification of DTT network associated to Mux A in the Azores (+)
23.02.10	Price table for public payphones of fixed telephone service (+)
23.02.10	ANACOM public tender to develop and apply a mobile termination costing model (+)
23.02.10	Modification of price table for communications from the PTC network to the network of other operators (+)
22.02.10	Declaration to Gowireless, Lda., to offer a Wireless-Lan network (+)
18.02.10	Declaration to Voz Original, Lda., to offer virtual cards service (+)
18.02.10	CTT quality of service indicators and complaints system - 2008 (draft) (+)
17.02.10	Public tender to lease vehicles (+)
17.02.10	Modifications to the RUO (+)
17.02.10	Residential price table for fixed telephone service (February 2010) (+)
10.02.10	Electronic radio licensing (+)
10.02.10	Calculation of the PTC capital cost rate (+)
04.02.10	New deadline for conducting BWA trials in the 3.4-3.8 GHz band (+)
29.01.10	ANACOM code of conduct (+)
29.01.10	Declaration to Voipunify, Lda., to offer nomad use voice over internet (VoIP) services (+)
29.01.10	Cancellation of frequency usage rights associated to Muxes B thru F (draft) (+)
29.01.10	Declaration to Ofertaxic, Lda., to offer public payphone services, resale of voice telephone traffic and virtual cards (+)
29.01.10	Extension of consultation period on the analysis of markets for voice call termination in individual mobile networks (+)
22.01.10	Declaration to ZZ-NADEEM, Lda., to offer public payphone services (+)
14.01.10	Markets for voice call termination in individual mobile networks and price control obligation (drafts) (+)
13.01.10	Protocols with autonomous regions to conduct amateur exams (+)
13.01.10	Telephone directories and information services in the scope of universal service - ZON/PTC Agreement (+)
13.01.10	Price table for PTC network communications to the operators' network (+)
06.01.10	ANACOM Risk and Corruption Prevention Plan (+)

### DISPUTE ON NETWORK INTERCONNECTION

By determination dated 14 May, the *Autoridade Nacional de Comunicações* (ANACOM) approved the draft decision concerning the intervention request submitted by Radiomóvel to obtain access or interconnection of its network, for the provi-

sion of mobile trunking service (MTS), with the networks of PT Comunicações (PTC), Sonaecom, TMN and Vodafone Portugal (Vodafone).

# COMMUNICATIONS AROUND THE WORLD

## EUROPEAN UNION

### 15<sup>th</sup> REPORT ON TELECOMS MARKETS

The European Commission (EC) published last 25 May the 15<sup>th</sup> report on implementation of the European single market for electronic communications, concerning 2009. In its analysis of the Portuguese market, the document highlights the adoption of laws and other measures to promote the implantation of new access networks in Portugal. The 15<sup>th</sup> report also indicates that broadband mobile use attained 16.1 percent in January 2010, the second highest figure in the European Union (EU) and slightly below the fixed broadband penetration rate (18.6 percent). (+)

### EUROPEAN DIGITAL AGENDA ANNOUNCED

In a communication titled "Digital Agenda for Europe" released on 19 May, the European Commission (EC) presented the conditions, targets and measures for optimal use of information and communication technologies (ICTs) from 2010 to 2015 to benefit the European economy. The first of seven flagship initiatives of the Europe 2020 Strategy, the Agenda envisages nearly 100 accompanying measures, 31 of them legislative. (+) The European Union's Council of Ministers of Transport, Telecoms and Energy meanwhile met last 31 May in Brussels and adopted a number of conclusions supporting the Digital Agenda for Europe presented by the EC. (+)

### DIGITAL COMPETITIVENESS IN EUROPE - REPORT

The European Commission published last 17 May a report on digital competitiveness in Europe, according to which the digital economy is growing strongly, reaching all sectors of activity and areas of life. Titled "Europe's Digital Competitiveness Report", the document indicates that the information and communication technologies sector's added value in the European economy is about 600 billion euros (4.8 percent of European GDP). (+)

### DECISION ON HARMONISED USE OF 800 MHz

The European Commission adopted last 6 May a decision on harmonised use of frequencies in the 790-862 MHz band, spectrum around 800 MHz freed up by the switch from analogue to digital television broadcasting, due to be completed in late 2012. The EC is thus aiming for the European Union (EU) member states to effectively use the 800 MHz band for wireless broadband networks, for example, especially fourth generation mobile communication technologies such as LTE or Wimax. (+)

### COURT REJECTS POLISH REGULATION

The European Court of Justice decided in a ruling handed down on 6 May that the Polish national regulatory authority, Urząd Komunikacji Elektronicznej (UKE), cannot move forward with the regulation of retail broadband internet access services of the incumbent operator Telekomunikacja Polska (TP), without first proceeding with the respective market analysis. (+)

### NEELIE KROES - MAY SPEECHES ONLINE

The speeches given in May by the EC's Vice-President and Commissioner for the Digital Agenda, Neelie Kroes, have been posted online. The speeches were given on 4 May, at the European Business Leaders Convention; on 19 May, at the opening of a press conference; on 25 May at the World Congress on Information Technology; and on 28 May, at the Global Cities Dialogue Spring Summit of Mayors. (+)

### A NEW STRATEGY FOR THE SINGLE MARKET

Mario Monti's report to the European Commission (EC) on the Single Market is now available. In it, he defends the current need to re-launch same to overcome concerns, missing links, bottlenecks and application problems. (+)

## OJEU

**Recommendation 2010/304/EU** - Of the Commission of 12 May 2010, concerning use of a harmonised methodology to classify and communicate consumer complaints and information requests. Published on 2 June.

**Decision 2010/299/EU** - Of the European Commission of 21 May 2010, revoking Decision 2002/627/EC which established the European Regulators Group for electronic communications networks and services (ERG), with effects as from 1 June and following on creation of the Body of European Regulators for Electronic Communications (BEREC). Published on 26 May.

## ANACOM INTERNATIONAL ACTIVITY

The *Autoridade Nacional de Comunicações* (ANACOM) represents the Portuguese communications sector before international sector-related organisations and took part in a number of recent meetings of the European Conference of Postal and Telecommunications Administrations (CEPT), the European Union (EU), the Body of European Regulators for Electronic Communications (BEREC), the Independent Regulators Group (IRG), the International Telecommunication Union (ITU) and the Universal Postal Union (UPU).

### CEPT

In the scope of the Electronic Communications Committee (ECC), ANACOM participated in the following meetings:

- joint meeting of project team (PT) 47 of the Frequency Management working group (WG FM) and PT 24 of the Spectrum Engineering working group (WG SE) last 7 May in the French city of Maisons-Alfort; (+)
- 35<sup>th</sup> meeting of PT 1 on 19-21 May in Copenhagen; (+)
- 20<sup>th</sup> meeting of the Regulatory Affairs working group (WG RA) on 11-14 May in Gdynia, Poland; (+)
- 56<sup>th</sup> WG SE meeting on 10-14 May in Tromsø, Norway. (+)

ANACOM attended the 42<sup>nd</sup> plenary meeting of the European Committee for Postal Regulation (CERP), held on 5-7 May in the Polish city of Krakow, where the European Commission representative spoke about creation of the European Regulators Group for Postal Services (ERGP). (+)

The Portuguese regulator also took part in the meeting of the CEPT Committee for ITU Policy (Com-ITU) held on 4-7 May in Bonn, Germany. (+)

### IRG

Helsinki hosted last 26 May an IRG plenary meeting which discussed issues concerning the 2011 budget and new ways

to boost efficiency when organising meetings and debates. (+)

### BEREC

BEREC's Board of Regulators (BR) and Management Committee (MC) held meetings on 26-27 May in Helsinki, in which ANACOM participated. (+)

In Istanbul the Portuguese regulator attended the 6 May meeting of the IRG Contact Network (CN), (+) as well as the BEREC CN meeting on 6-7 May. (+)

### EU

The Communications Committee (COCOM) met last 21 May in Brussels and counted the presence of ANACOM. (+)

The Portuguese regulator also took part in the meeting of the working group on Market Access (postal and courier services) of the European Commission's Directorate-General for Trade, held on 4 May also in Brussels.

### ITU

The Portuguese regulator took part in the fifth meeting in the 2008-2011 study cycle of working party 5C (WP 5C) of Study Group 5 (SG 5) of the Radiocommunication Sector (ITU-R), held on 10-20 May in Geneva. (+)

In the scope of efforts undertaken by the Centre for Excellence in Africa, ANACOM was present at the first training action in 2010, held in the second half of April in Maputo, Mozambique, and devoted to the theme topic of "Strategic Management of Marketing". (+)

### UPU

The Postal Operations Council of the Universal Postal Union met on 12-30 April in Berne, Switzerland. The Portuguese regulator participated in the meeting. (+)

## TECHNICAL WORKSHOP ON ROAMING

A GSM Association technical workshop was held on 21 May in Brussels, attended by members of the BEREC International

Roaming team and representatives from the European Commission. (+)

## HIRING IN INTERNATIONAL INSTITUTIONS

Applications for the vacant positions of Executive Support Officer (TA - Grade AD5), Legal Officer (TA - Grade AD5) and Human Resources Officer (TA - Grade AD5) may be submitted to the BEREC Office up to 31 July. (+)

The Universal Postal Union (UPU), based in the Swiss city of Berne, is recruiting until 15 August candidates for the position of Director of Operations and Technology, all in the organisation's International Bureau. (+)



# NEWS FROM OTHER COUNTRIES

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## **GERMANY - Bundesnetzagentur (BNetzA)**

- After 224 rounds over a total of 27 days of auctioning spectrum to supply wireless access for telecommunication services, the sum total of the 41 auctioned frequency blocs reached nearly 4.4 billion euros. The operators involved are Vodafone D2 (1.42 billion euros for a total of 12 blocs); Telefónica O2 Germany (1.38 billion euros; 11 blocs); Telekom Deutschland (1.3 billion euros; 10 blocs) and Erste MVV Mobilfunk Vermögensverwaltungsgesellschaft mbH (E-Plus) (283.6 million euros; 8 blocs). (+)

## **AUSTRALIA - Australian Communications and Media Authority (ACMA)**

- About four in every ten users of mobile telephone service has a tariff plan with a spending cap, indicates the regulator's report on "Mobile Capped Plans: consumer attitudes and behaviours". Some 72 percent of those with limited plans were satisfied with the available options for controlling spending, with 59 percent citing perceived value for money as the reason for adopting a mobile capped plan. (+)

## **BRAZIL - Agência Nacional de Telecomunicações (ANATEL)**

- Anatel has decided to suspend the limit on the number of cable television service providers. The decision is due to the identification of existing barriers to the entrance of companies in the subscription TV market, deriving from restrictions imposed even before the regulator began operating.

## **SPAIN - Comisión del Mercado de las Telecomunicaciones (CMT)**

- In Spain, broadband passed the mark of 10 million accesses at the end of March, for an annual growth rate of 8.4 percent and a penetration rate of 21.5 connections per 100 inhabitants.

## **SPAIN - Ministry of Industry, Tourism and Trade (MITYC)**

- In its consultation on new telecommunications infrastructures financially backed by the Avanza Plan, the State Secretariat for Telecommunications and Information Society set as minimum requirements for universal broadband a minimum download speed of 1 Mbps (preferably 2 Mbps), an availability rate of more than 99 percent and a monthly cost below 25 euros, whose traffic limit cannot be less than 2 Gbytes.

## **FRANCE - Autorité de Régulation des Communications Électroniques et des Postes (ARCEP)**

- In the scope of preparing for the third round of call termi-

nation market analysis, ARCEP launched a public consultation, ending on 29 June, on updating the structure of its mobile operator technical-economic cost model.

- The regulator likewise placed in public consultation until 2 July a document gathering its first guidelines on the internet and network neutrality, resulting from research work carried out over seven months and which included nearly 50 interviews and a survey. (+)

## **The NETHERLANDS - Onafhankelijke Post en Telecommunicatie Autoriteit (OPTA)**

- An OPTA note examines regulation concerning access to fibre to the home networks, both in the context of the relationship between regulation, risk and investment incentives in light of relevant economic theory, and compared to other kinds of regulation. (+)

## **IRELAND - Commission for Communications Regulation (ComReg)**

- Bearing in mind the European Commission's decision on the 2.6 GHz band and associated activities at European level, as well as current use of those frequencies in Ireland, ComReg launched a call for input, to run up to 25 June, via which it aims to gather the opinion of interested parties on potential uses and future licensing options for the 2500-2690 MHz frequency band (the '2.6 GHz band'). (+)

## **MOROCCO - Agence Nationale de Réglementation des Télécommunications (ANRT)**

- The regulator has published first quarter 2010 statistical data concerning the markets for fixed telephony, mobile telephony, internet access and public telephones.

## **UNITED KINGDOM - Office of Communications (Ofcom)**

- The regulator has published the report by the Analysys Mason consultancy firm on operational aspects of duct sharing services, a work based on case studies of duct access sharing in France, Portugal, Spain and the United States of America. Note that Ofcom's proposals for a wholesale local access supply market, whose public consultation ended on 1 June, include a proposal imposing on British Telecom the obligation to supply a service for sharing ducts and poles. (+)

- The Ofcom project for a good practices code to reduce online copyright infringements has been placed in public consultation until 30 July. The regulator hopes the code can take effect in early 2011. (+)

## FIRST QUARTER 2010 STATISTICS PUBLISHED

The *Autoridade Nacional de Comunicações* (ANACOM) has released statistical information on the first quarter of 2010 (1Q10) concerning postal services and electronic communica-

tion services (internet access service, subscription television service and mobile telephone service). (+)

## CONSUMPTION OF ELECTRONIC COMMUNICATION SERVICES IN 2009 - SURVEY

About a quarter (24.4 percent) of the Portuguese subscribe to four or more electronic communication services (fixed (FTS) and mobile (MTS) telephone services, fixed and mobile internet access service, and subscription TV service) in 2009. Compared to the previous year, a growing trend to acquire more simultaneous services was observed. This data is included in the main

results of the last survey on the consumption of electronic communication services conducted by ANACOM and GfK Metris from 6 November to 20 December 2009, with the aim of gauging the level of use and residential users' perception of the quality of same in Portugal. (+)

## BEREC - PUBLIC CONSULTATIONS AND NEW OFFICE HEADQUARTERS

The Body of European Regulators for Electronic Communications (BEREC) has launched two public consultations: one on procedures the body should use to conduct public consultations, and another on best practices for facilitating operator switching, both under way until 2 July. Comments from interested parties should be sent to the email address [berec@ec.europa.eu](mailto:berec@ec.europa.eu). (+)

Meanwhile, on the sidelines of the European Union's Council of Ministers of Transport, Telecommunications and Energy (Brussels, 31 May), the conference of representatives of governments of the EU member states decided that the BEREC Office would be headquartered in Riga, Latvia, thus making it fully operational. (+)

## ITU WANTS HALF THE WORLD'S POPULATION WITH BROADBAND ACCESS BY 2015

The International Telecommunication Union (ITU) recently published the "World Telecommunication/ICT Development Report 2010", which makes a mid-term review of progress towards creation of a global information society in 2015. That commitment was signed by governments attending the World

Summit on the Information Society (WSIS), held in two sessions in Geneva (2003) and Tunis (2005). In general terms, this ninth report concludes that despite the objectives accomplished in the last five years, major efforts are required in the developing countries to reach the goals and targets by 2015. (+)

### 4º CONGRESSO COMITÉ PORTUGUÊS DA URSI

23 e 24 de Setembro de 2010, Lisboa

Comunicações  
rádio pessoais:  
redes de curto alcance  
e RFID

### PRÉMIO DE INVESTIGAÇÃO URSI PORTUGAL

O Comité Português da URSI, com o patrocínio da ANACOM, irá atribuir um prémio ao melhor trabalho de investigação na área da radioelectricidade, convidando-se os autores a submeter, até **2 de Agosto de 2010** os seus trabalhos. O prémio, no valor de €5.000,00, será entregue durante o 4º Congresso. Consulte o regulamento.

### CALL FOR PAPERS

Convidam-se os interessados a submeter, até **2 de Agosto de 2010**, comunicações científicas originais sobre o tema "Comunicações rádio pessoais: redes de curto alcance e RFID" ou sobre as áreas identificadas como temas científicos do Congresso. Os trabalhos seleccionados serão apresentados no 4º Congresso do Comité Português da URSI, a 23 e 24 de Setembro de 2010, em Lisboa.

Mais informação em  
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# SPECTRU

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