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DTT - RIGHTS ASSOCIATED TO MUXES B TO F REVOKED

By determination dated 29 January, the *Autoridade Nacional de Comunicações* (ANACOM) approved the draft decision on revoking the act allocating frequency usage rights associated to Multiplexers B thru F and consequently the five licences substantiating the usage rights allocated to *PT Comunicações*

(PTC), without forfeiture of guarantee. It was also determined that the revocation decision would be retroactive to the date of this draft decision, which is under public consultation until 1 March. Interested parties are asked to submit comments, preferably by email to consulta.revogacao.muxes.bf@anacom.pt. (+)

PTC-OTHER OPERATORS COMMUNICATIONS PRICE TABLE

By determination dated 13 January, ANACOM decided not to oppose the proposed price table submitted by *PT Comunicações* (PTC) for communications originating in its network and destined for the network of other service providers. ANACOM analysed the PTC proposal, which involved two price tables scheduled to take force on 1 February and concluded that the price table for group 1 (calls to Equant and PT Prime) is

identical to the price table practiced by PTC for intra-network calls, whereby same complies with the applicable obligations. This is likewise the case for group 2 (calls to the other operators), given that the average price per call in the proposal shows no deviation from what would result from application of the defined rule. (+)

BWA AUCTION - ONLY ONE BIDDING ROUND

The only round of bidding for the distribution phase by candidates admitted to the auction for the allocation of frequency usage rights for broadband wireless access (BWA) began at 9 a.m. last 9 February and ended at 5 p.m. on 11 February. (+)
Given that none of the bidders admitted to the BWA auction

withdrew their applications, the disclosed candidates list remained unchanged and the following thus took part in the bidding: Bravesensor, Unipessoal, Lda, Município de Sintra and Onitelecom S.A. (+)

MARKET 7 ANALYSIS - PUBLIC CONSULTATION

Due to extension of the original deadline (17 February), the ANACOM draft decision on the definition of relevant wholesale markets for voice call termination in individual mobile networks (market 7 of European Commission Recommendation 2007/879/EC of 17 December, formerly market 16 of Commission Recommendation 2003/311/EC of 11 February),

significant market power (SMP) assessment in those markets and the imposition, maintenance, amendment or withdrawal of regulatory obligations in that context has been placed under public consultation until 3 March. Interested parties are asked to submit comments, preferably by email to consulta-mercado7@anacom.pt. (+)

COMMUNICATIONS IN PORTUGAL

NEWS

ADMINISTRATIVE OFFENCE CASES

As *PT Comunicações* was verified to have unduly rejected portability requests, either alleging overburden in cases where the minimum daily capacity level for processing portability requests had not been reached or by unjustifiably invoking a lack of correspondence between the title-holder and the subscriber's address on the portability request and that existing in its information systems, and also for not responding to those portability requests within two working days, the *Autoridade Nacional de Comunicações* (ANACOM) decided to fine the company the sum of 500,000 euros. Regarding postal services, administrative offence cases have been filed against the companies *António Carlos Santos – Entregas Rápidas*, *Unipessoal, Francisco & Silvina – Transportes de Documentos e Encomendas*, *Consigo pelo Mundo – Transporte e Entrega de Documentos*, *Unipessoal*, and *Expressodão – Transporte de Mercadorias*.

ANACOM RADIO METROLOGY LABORATORY

Aware of the need to reduce the calibration services' response time and to improve the quality of services provided by its Radio Metrology Laboratory (RML), ANACOM has placed strong emphasis on training for its technicians. This resulted in the implementation in late 2009 of calibration automations in measurement equipment for the low frequency area. The efficiency of this implementation has been verified and the RML is now working to extend the approach to some equipment in the radio frequency area. The RML is a lab accredited by the Portuguese Accreditation Institute (IPAC) according to Standard NP/EN ISO/IEC 17025 and holds IPAC Accreditation Certificate no. M0053.

RISK AND INNOVATION WORKSHOP - PRESENTATIONS

The presentations given during the workshop on "Risk and Innovation" held last 22 January in Lisbon and co-organised by the European Network and Information Security Agency (ENISA) and ANACOM are available for consultation. (+)

SUBSCRIPTION CONTRACTS APPROVED

By order dated 30 December 2009 ANACOM approved the subscription contract of *Cabovisão – Televisão por Cabo* for the provision of electronic communication services. (+)

ANACOM WEBSITE - ACCESSIBILITY TESTS

Expert analysis of the ANACOM website by the Human-Computer Interaction and Multimedia (HCIM) team from the LaSIGE Research Laboratory based at the Faculty of Sciences of the *Universidade de Lisboa* has revealed that this Authority's internet presence is adjusted to the needs of disabled users, maintaining a level well above that generally verified on other websites covered by Council of Ministers Resolution no. 155/2007 of 2 October. (+)

ANACOM PRESENT ON TWITTER

ANACOM has been present on the Twitter social network since February 2009 and by the end of 2009 had counted 490 registered followers and 765 'tweets' regarding items in Portuguese and English. (+)

APDC DISCLOSES 2010 ACTIVITIES PLAN

The Portuguese Association for the Development of Communications (APDC) has disclosed its activities plan for 2010, indicating that next generation networks (NGNs) are among its top priorities. The APDC also plans to hold a series of dinner debates with the theme topic of "The Next Agenda" in the "APDC Cycle: innovation in public administration" and in the "TechMedia Growth & Interest" project.

AdC STUDY ON CONSUMER MOBILITY

The Competition Authority (AdC - *Autoridade da Concorrência*) released last 2 February a study on consumer mobility in the electronic communications sector covering the period from December 2008 to July 2009. The report indicates, for example, that satisfaction with prices and quality are among others the two most significant reasons for Portuguese consumers not to change their operator or provider of telecommunications services.

DEBTS TO MOBILE OPERATORS - EXPIRATION

The Supreme Court of Justice has decided per its ruling no. 1/2010, published in the official gazette on 21 January, to make case law uniform by clarifying that the right to payment of the price for services rendered by the mobile operators expires six months after their provision. This decision refers however to payment for services rendered between June 2001 and May 2002. (+)

PORTED NUMBERS

2009												
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
FTS	934473	956626	981964	1009413	1029554	1050891	1068918	1086530	1099247	1117919	1137352	1149926
MTS	229272	234011	240394	246686	252591	259284	265801	272940	278369	284784	292626	298045
NGS*	888	896	907	922	943	968	986	999	1025**	1033**	1057**	1066**
TOTAL	1164633	1191533	1223265	1257021	1283088	1311143	1335705	1360469	1378641	1403736	1431035	1449037

FTS – Fixed Telephone Service; MTS – Mobile Telephone Service; NGS – Non-Geographic Services

* Non-Geographic Services (NGS) whose numbers can be ported are the following: Free Call for the Caller Service (800), Shared Cost Call Service (808, 809) and Universal Access Service (707).

** Includes a number ported from the 30 numbering range (number associated to nomad VoIP service).

INFORMATION IN THE SCOPE OF UNIVERSAL SERVICE – ZON-PTC AGREEMENT

The *Autoridade Nacional de Comunicações* (ANACOM) decided by determination dated 13 January that *ZON TV Cabo* (ZON) and *PT Comunicações* (PTC) should work to sign an agreement on the format and conditions for supplying information on respective subscribers indicate that their data can be included in the directory and information service of universal service (US); a deadline of 15 working days from the determination's notification date was set. It was also decided that after

that deadline the operators should submit to ANACOM copies of the agreement they signed, along with information on the respective implementation, which should be immediate. If such agreement is not signed, the companies should report this to ANACOM and communicate the efforts made, problems encountered and the way they believe obstacles to the agreement can be overcome. (+)

NEW ONLINE CONSUMER SUPPORT AREA

ANACOM has provided since 25 January a new Consumer Support area on its website. It initially covers only electronic communications, per service, but should soon be extended to postal services. The general public and electronic communication service users in particular can find relevant information about the supply conditions and modes for such services, the

rights and duties associated to their provision and the ways to react to eventual non-compliance by providers. Information is also provided on the role of ANACOM and other relevant bodies in this context. With this initiative ANACOM takes yet another step to ensure a high level of protection for the interests of communication service users. (+)

FREQUENCY SHARING IN PEACETIME – AGREEMENT UPDATED

The Armed Forces General Staff's Communications and Information Systems Division (EMGFA/DICSI) and ANACOM have signed the updated National Agreement on Frequency Sharing in Peacetime, which took force on 16 December 2009. The 1999 agreement was in need of revision due to changes in the

Radio Regulation introduced by the ITU's World and Regional Radiocommunication Conferences, bilateral agreements signed in the meantime and also European decisions adopted for the area of spectrum management.

ANNUAL SECTOR QUESTIONNAIRES – 2010

The new annual questionnaires on electronic communications and postal services have been posted on the ANACOM website. They must be filled out by the respective operators and pro-

viders for sector monitoring purposes and for this Authority's annual publications, including those resulting from legal and statutory obligations. (+)

DETERMINATIONS ADOPTED BY ANACOM - 4th QUARTER 2009

DATE	DETERMINATION
23.12.2009	NFAP 2009/2010 (consultation)
23.12.2009	Return of numbers by Sonaecom - amendment of decision
23.12.2009	Use of electronic means in radio licensing
16.12.2009	Public consultation on SIC
16.12.2009	Procedures to register and renew ITED and ITUR [telecoms infrastructure] trainers
16.12.2009	PTC cost accounting system (financial years 2004 and 2005)
16.12.2009	Reanalysis of retail market for leased lines and wholesale markets for terminal segments and leased lines transit (draft decision)
09.12.2009	Bragatel - Cancellation of FWA frequency usage right
09.12.2009	Audit of MTS statistical information from Vodafone (draft)
09.12.2009	Audit of MTS statistical information from Sonaecom (draft)
09.12.2009	Audit of MTS statistical information from TMN (draft)
02.12.2009	ITED and ITUR - evaluation procedures (consultation)
27.11.2009	Calculation of fees owed by suppliers of electronic communication networks and services
27.11.2009	Delegation of powers to management board member Filipe Baptista
25.11.2009	Final approval of ITED (2 nd edition) and ITUR (1 st edition) [telecoms infrastructure] manuals
20.11.2009	Authorisation of Rangel Espresso II, S.A., to provide postal services
18.11.2009	Licence for Post Contacto, Lda, to provide postal services
17.11.2009	ITUR terms of responsibility
17.11.2009	Residential price table for fixed telephone service (2010)
17.11.2009	Calculation of PTC capital cost rate (draft decision)
17.11.2009	Modification of RCAO (draft decision)
11.11.2009	Portability questionnaire
03.11.2009	Radio interfaces - update of technical specifications
03.11.2009	Universal service - residential price table for fixed telephone service
30.10.2009	Declaration for OVHHOSTING, Lda, to provide VoIP services and resale of voice telephone traffic
30.10.2009	Authorisation for Polientrega, Lda, to provide postal services
28.10.2009	ANACOM public tender - Acquisition of study to evaluate and characterise communications security
28.10.2009	Public consultation on costing models
21.10.2009	'Telephone PT Hello' offer by PT Comunicações
21.10.2009	Telephone directories and information services in the universal service context - ZON/PTC agreement (draft decision)
14.10.2009	Award of study to gauge internet access quality of service
14.10.2009	Audit of PTC cost accounting system - 2004 and 2005 (draft decision)
14.10.2009	Regulation of auction to award BWA frequencies
02.10.2009	Award for acquisition of two systems to evaluate DTT coverage for Spectrum Monitoring and Control
02.10.2009	Application of new rates system

NGNs - AWARD FOR NORTH, CENTRE AND ALENTEJO/ALGARVE TENDERS

The Minister of Public Works, Transport and Communications, António Mendonça, announced last 6 February the award decisions regarding the tenders for the installation, management, operation and maintenance of high speed electronic communications networks (NGNs - next generation networks).

The NGN tenders for the North and Alentejo/Algarve areas were awarded to the DStelecom company, while the one for the Centre area went to the Viatel company. The award decisions for the Azores and Madeira tenders remain to be announced. (+)

COMMUNICATIONS AROUND THE WORLD

EUROPEAN UNION

NEW COMMUNICATIONS REGULATOR BEGINS WORK

The first meeting of the new Body of European Regulators of Electronic Communications (BEREC), established per the reformed rules governing European telecommunications, was held last 28 January in Brussels. BEREC comprises national communications regulatory authorities from the 27 European Union (EU) member States and is aided by an office which provides the necessary professional and administrative support. It replaces the European Regulators Group (ERG). John Doherty, president of the Irish regulator ComReg, was elected BEREC's chairman for 2010, while the head of the Dutch regulator OPTA, Chris Fonteijn, was elected chairman for 2011 and is therefore a vice-chairman in 2010. The other vice-chairs are held by the head of the Spanish regulator CMT, Reinaldo Rodríguez, and by Matthias Kurth of the German regulator (BNetzA). A decision was also made to approve the launch of a public consultation on the BEREC working programme for 2010, which will be open until 2 March. (+)

NETWORK AND INFORMATION SECURITY - STUDIES

The European Network and Information Security Agency (ENISA) has published the following studies: "Third ENISA Anti-Spam Measures Survey", presenting the results of research addressed to providers of email services of different kinds and dimensions, in which comments were received from 90 respondents in 30 different countries, among them EU member countries, who oversee 80 million email accounts; "Network Resilience and Security: challenges and measures", on challenges and possible improvements regarding the security and resilience of communication networks; and "Guidelines for Enhancing the Resilience of Communication Networks - Providers' Measures", a set of orientations to enhance resilience measures for communication networks, addressed to the suppliers of such services. (+)

FRANCE - TAX CAUSES EC TO INITIATE PROCEEDINGS

The European Commission (EC) filed last 28 January infringement proceedings against France due to the 'telecoms tax' applied to telecommunications sector operators. To offset the

end of advertising in public television channels, France introduced a specific fee vis-à-vis operators' turnover in the scope of the respective licence to render telecommunications services (including internet and mobile telephone service). But the EC holds that this fee is actually an administrative charge (tax) which is incompatible with European law. (+)

SOCIAL SERVICES - CASE AGAINST BULGARIA

The European Union has filed infringement proceedings against Bulgaria for failing to comply with EC rules on availability of the 169 MHz frequency band for social services - the case of hearing aids, social alarms and home emergency buttons for the elderly and disabled, and electronic services such as assets tracking and paging services. The Bulgarian government now has two months to respond to the formal notification sent by the EC on 28 January. If no answer is received, or if the observations presented by the Bulgarian authorities do not pass muster, then the Commission may issue a reasoned opinion (second stage of an infringement proceeding). (+)

ITALY - EC LEGAL ACTIONS

The EC has closed the case filed against Italy for not routing calls made to the European single emergency number 112 to the competent national emergency services. The Commission confirmed that the problem was resolved and that Italian authorities had shown that police forces who normally respond to 112 calls are effectively transferring those calls to the proper emergency service as required by the Universal Service Directive. However, another infringement proceeding against Italy is still pending, concerning the lack of caller location information for mobile calls to 112. (+)

According to EU legislation, subscribers included in a public directory must be informed about its objectives and consent to any use of their personal data for marketing purposes. As Italy failed to comply with this obligation, the Commission decided to send a formal notification letter, the first step in an infringement proceeding. Italy now has two months to resolve the non-compliance in question. (+)

ANACOM INTERNATIONAL ACTIVITY

As part of ANACOM's international activity representing the communications sector before international sector organisations, this Authority took part in recent meetings of the European Conference of Postal and Telecommunications Administrations (CEPT), the European Union (EU), Independent Regulators Group (IRG), European Regulators Group (ERG), Euro-Mediterranean Regulators Group (EMERG) and the International Telecommunication Union (ITU).

CEPT

ANACOM took part last 13-15 January in the French city of Maisons-Alfort in the third meeting of project team (PT) 43 of the Spectrum Engineering working group (WG SE) of the Electronic Communications Committee (ECC), responsible for defining technical requirements for the operation of cognitive radio systems/equipment (CRS) in spectrum not used by digital terrestrial television (DTT) networks and emitting microphones (PMSE) in the 470-790 MHz frequency band. (+)

Last 26-29 January it was represented at the sixth meeting of CPG PTC, a CEPT group is in charge of preparing European positions for the next ITU World Radiocommunication Conference (WRC-12). (+)

Note also the participation in the 13-14 January meeting of the ITU Policy Committee (Com-ITU), which focused on preparations for the next ITU Plenipotentiary Conference, scheduled for 4-22 October 2010 in Mexico. (+)

Lastly, ANACOM attended the 19th meeting of the ECC working group on Regulatory Affairs (WG RA) last 26-29 January. (+)

EU

At European Union level, ANACOM took part in the first meeting of the Radio Spectrum Policy Group (RSPG) working group on the Digital Dividend, held last 27 January. (+)

It also took part last 25 January in a seminar to launch two new postal sector studies to be carried out in 2010: "Main Develop-

ments in the Postal Sector 2008-2010", to be conducted by the Copenhagen Economics consultancy; and "External Dimension of the EU Postal Acquis", to be conducted by WIK-Consult and James I. Campbell. (+)

ITU

Various ITU Council working group (WG) meetings were held. Among them, ANACOM took part last 25 January in the first meeting of the ITU Council WG in charge of preparing for the World Conference on International Telecommunications (WCIT). (+)

It was likewise represented at the following meetings:

the 17th meeting of the WG on Financial Regulation (FINREGS) on 26-27 January; (+)

the seventh meeting of the WG on Human Resources Management on 28 January; (+)

the meeting of the WG in charge of preparing the strategy and finance plan, from 29 January to 1 February. (+)

ANACOM also took part last 20-21 January in the second meeting of the subcommittee on management of the ITU Excellence Centre for the Portuguese and Spanish speaking countries in Africa. (+)

REGULATORS GROUPS

At ERG level, ANACOM attended last 11 January the seventh meeting of the joint PT of the ERG and RSPG, henceforward PT BEREC/RSPG, given that the ERG's functions have been taken over by the new Body of European Regulators of Electronic Communications (BEREC). (+)

It also took part in a meeting of the ERG/IRG PT on Convergence/Economic Analysis, held last 15 January. (+)

This Authority also took part in the plenary meeting of the Euro-Mediterranean Regulators Group (EMERG) held last 12-13 January. (+)

RECRUITMENT IN INTERNATIONAL INSTITUTIONS

With a view to promoting the European standardisation system developed by CEN, CENELEC and ETSI, and with European Commission and EFTA backing, applications may be submitted until 25 February for the vacant position of Second European Standardisation Expert at the European Business and Technology Centre (EBTC) in New Delhi, India. Interested parties are asked to submit same by registered letter sent to the CEN-CENELEC Management Centre, Mrs Silvia Vaccaro, Avenue Marnix, 17 B, B-1000 Brussels, or alternatively by email to silvia.vaccaro@ecen.eu. (+)

The Universal Postal Union (UPU) based in Berne, Switzerland, is also hiring. Applications should be submitted no later than 31 March for the positions of Director of Economic and Regulatory Affairs and Head of the EMS Unit (Operations and Technology Directorate) at the Union's International Bureau. (+)

Applications for the positions of Senior Media Relations Officer and Procurement Officer may also be submitted, respectively until 29 March and 1 April, to the International Telecommunication Union (ITU), a specialised United Nations agency based in Geneva. (+)

NEWS FROM OTHER COUNTRIES

GERMANY – Bundesnetzagentur (BNetzA)

- BNetzA has decided for the first time ever to effectively apply fines in six court cases involving unlawful telephone advertising. As a result, in December 2009 and January 2010 a total of nine court cases led to fines for an overall amount of nearly 500,000 euros. (+)

AUSTRALIA – Australian Communications and Media Authority (ACMA)

- ACMA has submitted to the Minister for Broadband Communications and Digital Economy the last of three annual reports on steps to promote safety in the online environment. This most recent document is based on the previous ones and explores implications stemming from the way ICTs are used in the emerging digital economy vis-à-vis the management of online risk and promoting safety. (+)

BELGIUM – Institut Belge des Services Postaux et des Télécommunications (IBPT)

- The regulator's decision on the conformity of Belgacom's cost accounting system for 2008 has been published.

BRAZIL – Agência Nacional de Telecomunicações (ANATEL)

- ANATEL's Interconnection Arbitration Committee (CAI) has set the remuneration value for use of the mobile telephone service's network (VU-M) to be paid by the operator Oi to the operators Claro, TIM and Vivo per region of the General Authorisations Plan (PGA). This CAI decision was formalised per order no. 01/2010-CAI of 29 January and results from the companies' failure to reach an agreement regarding the respective value.
- Brazil recorded 1.15 million new subscribers to subscription television service in 2009, thus reaching a total of 7.47 million homes and accounting for growth of 18.24 percent, the highest since the sector grew 26 percent in 2002.
- The regulator has disclosed that 88 percent of the 5,564 Brazilian municipalities already have broadband infrastructures, thus verifying that all fixed telephony operators met the targets set for 31 December 2009.

SPAIN – Comisión del Mercado de las Telecomunicaciones (CMT)

- Spain closed the year 2009 with 9.7 million broadband connections, for growth of 7.6 percent over 31 December 2008. The penetration rate rose to 21.1 lines per 100 inhabitants.

FRANCE – Autorité de Régulation des Communications Électroniques et des Postes (ARCEP)

- France's Constitutional Council has approved the law concerning the public company La Poste and postal activities, rejecting all allegations that it was against the law given that the contested articles (1, 11, 12 and 32) respect the Constitution.
- With 1.8 million new subscribers in the last quarter of 2009 (versus only 488,000 in the previous quarter), France closed the year with 61.4 million mobile subscribers, for growth of 6 percent over 2008. Mobile telephony's penetration rate stood at 95.8 percent. Statistical data published by the regulator also reveal that more than 23.5 million customers used mobile internet resources in the fourth quarter of 2009. (+)
- ARCEP has launched a public consultation, which ends on 1 March, on the rules to follow in the cost accounting of the universal postal service provider La Poste.

IRELAND – Commission for Communications Regulation (ComReg)

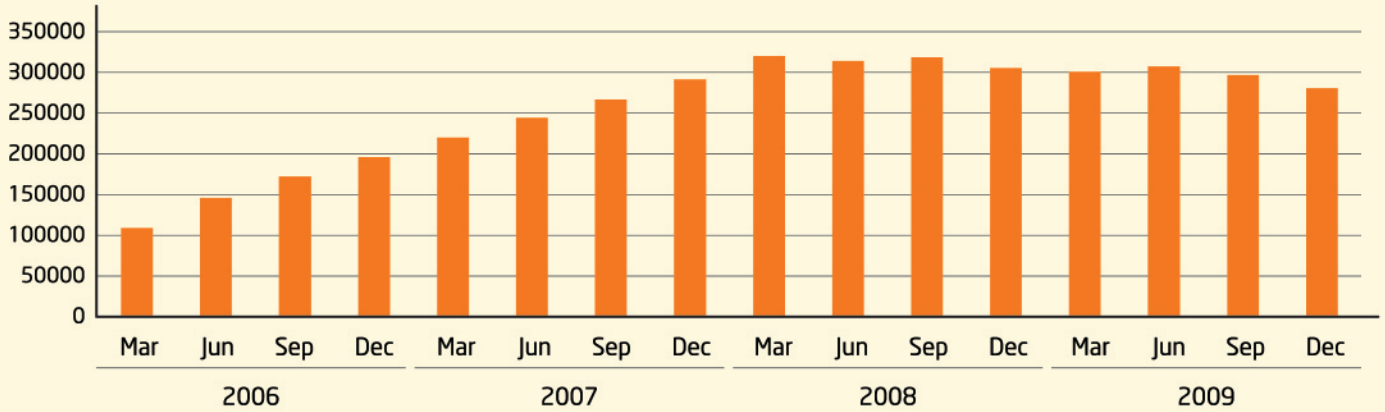
- The regulator has launched a public tender for the development, audit and accreditation of a quality standard for customer service complaints handling by electronic communications operators. The companies were given until 10 February to express whether they wanted to take part in the tender; those who did must submit the respective bids by 12 March. Plans call for the winner to be announced on 25 March. (+)
- The fourth report from the programme to measure non-ionising radiation in 2009 has been disclosed. Tests were conducted at 20 sites from October to December and indicate that the radiation under analysis was below the limits set by the International Commission on Non-Ionising Radiation Protection (ICNIRP). (+)

UNITED KINGDOM – Office of Communications (Ofcom)

- Ofcom has launched a public consultation, under way until 19 March, on increased power limits for third generation (3G) mobile telephony licences meant to enhance that service's coverage and thus potentially increase the availability of 3G services in the United Kingdom. (+)
- The regulator has published a statement on next generation networks, presenting its conclusions on issues concerning consumers, competition and investment, thus closing a process begun on 31 July 2009, with public consultation of the document titled "Next Generation Networks: responding to recent developments to protect consumers, promote effective competition and secure efficient investment". (+)

EVOLUTION OF THE NUMBER OF UNBUNDLED ACCESSES

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



ANACOM SEMINARS - NEXT EVENT ON 12 MARCH

The 24th gathering in the ANACOM Seminars series will be held in Lisbon this 12 March at 3 p.m. and include a presentation on "Spectrum Management: recent developments and challenges" by Tommaso Valleti, professor of economy at the Imperial College Business School and at the University of Rome Tor Vergata. The seminar aims to cover recent progress and challenges

involving spectrum management, specifically in terms of the following: spectrum characteristics, spectrum award versus allocation, demonstration of spectrum allocation policies, spectrum trading and answers to eventual problems, and the digital dividend. Participation in the seminar is free, though subject to prior registration by email via seminarios@anacom.pt.

AGENDA

MEETINGS

CEPT

Assembly

- WG ITU/ PT WTDC (23/February)

ECC (1-5/March)

- WG FM PT 46 (09-11/February)
- PT1 (10-11/February)
- WG FM PT 47/WG SE PT 24 (17-19/February)

EU

WG Telecommunications

(11, 18 and 25/February)

COCOM (18/February)

IRG/ERG/BEREC

Plenary meeting (25-26/February)

ITU

Radiocommunication Sector

- RAG (17-19/February)

Telecommunications Development Sector

- TDAG (24-26/February)

EVENTS

- **17th Computer Week (Instituto Superior Técnico)**, Lisbon, 8-12 March
- **FTTH Council Europe 2010 (ANACOM sponsorship)**, Lisbon, 24-25 February
- **Mobile Deployable Communications**, Prague, 24-25 February
- **Workshop IEEE International Microwave Series (ANACOM sponsorship)**, Aveiro, 22-23 February
- **Mobile World Congress 2010**, Barcelona, 15-18 February

SPECTRU

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