

# SPECTRU

BIMONTHLY NEWSLETTER

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## DTT- NETWORK MIGRATION BEGUN

The Odivelas Centro emitter has already shifted from channel 56 to channel 35. The process ran smoothly and marked the start of migration of the digital terrestrial television (DTT) network, the aim being to free the 700

MHz band for 5G. The Autoridade Nacional de Comunicações (ANACOM) provided the free number 800 102 002 to answer any questions; technical teams were also on the ground to help the population properly tune equipment. (+)

## PROVISION OF UNIVERSAL POSTAL SERVICE

Following the request from the government, ANACOM launched a public consultation on the provision of universal postal service in national territory supplied by CTT Correios

de Portugal until 31 December 2020. The deadline for sending in contributions was 24 December. (+)

## EUROPEAN ELECTRONIC COMMUNICATIONS CODE

In the scope of ongoing work to produce the preliminary draft to present to the government on transposition of the European Electronic Communications Code, ANACOM has initiated a public hearing process, as it was considered

relevant to gather contributions from all interested parties regarding the various subjects covered by that code. Contributions, in Portuguese, should be submitted via the ANACOM website by 13 January 2020. (+)

## ANACOM CREATES CONDITIONS FOR 5G

- ANACOM has approved a set of measures meant to comply with the strategy of the European Union (EU) for the digital single market and particularly with Implementing Decision (EU) 2016/6872 of 28 April, through which technical conditions have been harmonised for availability and efficient use of the 694-790 MHz frequency band (700 MHz band) for terrestrial systems able to supply wireless broadband electronic communication services. (+)
- The public consultation on designation of the 700 MHz band for electronic communication services, limitation of the frequency usage rights to allocate in the 700 MHz, 900 MHz, 1800 MHz, 2.1 GHz, 2.6 GHz and 3.6 GHz bands and definition of the expected allocation procedure was

- launched on 22 October. (+)
- Also launched was a consultation on modification of the current frequency usage right of Dense Air in the 3.4-3.8 GHz band, leading to a rearrangement and relocation of the spectrum held by the company. (+)
- A public consultation on the requests by NOS Comunicações (NOS) for frequencies to be allocated in the 900 MHz and 2100 MHz bands was also launched on that date. (+)
- Following the request from MEO Serviços de Comunicações e Multimédia (MEO), ANACOM also decided on 22 October to revoke the frequency usage right for operation of the fixed wireless access (FWA) system, effective as from 30 June 2019. (+)

# COMMUNICATIONS IN PORTUGAL

## NEWS

### REVOCATION AND TRANSFER OF FREQUENCY USAGE RIGHT

- By decision dated 17 October, ANACOM did not oppose the transfer to the title of PopQuestion II Comunicação of the frequency usage right in the 87.5-108 MHz band allocated to PopQuestion for provision of a local radio programme service for the county of Oliveira de Azeméis; (+)
- ANACOM made public on 6 November that it had received from the Regulatory Authority for the Media (ERC) a request for a decision on the manifest intention of Maiorca FM Produções Radiofónicas to transfer to Record FM Sociedade de Meios Audiovisuais de Sintra the frequency usage right it was allocated to carry out audio broadcasting activity. (+)

### NEW NORTHERN MONITORING CENTRE

The ANACOM offices in Porto hosted the opening ceremony for northern Portugal's new spectrum monitoring and control centre. It was attended by the mayor of Porto, Rui Moreira, and representatives of sector operators, business associations, amateur radio enthusiasts and the judiciary police. (+)

### COMMUNICATIONS MARKET IN THE NATIONAL ECONOMY

The ANACOM publication on the "Communications Market in the National Economy (2014-2018) is now available. It describes the structure and performance of the communications market in the Portuguese economy during that period. (+)

### THE COMMUNICATIONS SECTOR IN 2018

ANACOM has released the report on the "Communications Sector - 2018", which describes the electronic communications and postal sector in 2018 and explains its performance during the year in question. (+)

### ANACOM PUBLIC PARTICIPATION

The chair of the Board of Directors, João Cadete do Matos, took part in the following events:

- 28 November - RTP1 programme "Bom Dia Portugal", in the report on the DTT network's migration process; (+)
- 27 November - RTP1 programme "Bom Dia Portugal", on the pilot phase of the DTT network's migration process; (+)
- on the same date, in Lisbon - opening session of the 23rd National Gathering of Telecom Sector SMEs of the Communications Business Association of Portugal (ACIST), on the subject of

"Innovation and ICTs for sustainable development"; (+)

- 26 November - in the report on the "Jornal das 8" programme of TVI, on changes to the DTT network; (+)
  - 20 November, in the opening session of the 29th Digital Business Congress of the Portuguese Association for the Development of Communications (APDC) held on 20-21 November in Lisbon, which focused on the topic of "The future of business"; (+)
  - 23 October in Lisbon - in the Portugal Digital Summit, as head of the European Regulators Group for Postal Services (ERGP), in the session on "E-logistics: fuelling e-commerce growth in Europe". (+)
- João Miguel Coelho, vice-chair of the board, took part in the following events:

- 11 October - at the 5G session of the 5th Techdays, held at the Exhibitions Park of Aveiro; (+)
  - 9 October - at the ceremony marking World Post Day, held at the offices of the Portuguese Foundation for Communications. (+)
- Press officer Ilda Matos participated in the following:
- 27 November - in the programme "Portugal em Direto" of the Antena 1 channel, on changes to the network of DTT emitters; (+)
  - 19 November - in the "Economia 24" section of the "Diário da Manhã" programme of TVI and TVI24, on changes affecting DTT and what users have to do to adjust; (+)
  - 11 November - in the "Primeiro Jornal" programme of SIC, on the same subject. (+)

The director of Regulation and Markets, Luís Manica, took part as keynote speaker in the opening session of the 29th APDC Congress on 21 November in Lisbon. (+)

Miguel Henriques, head of the Frequency Assignment and Licensing Division, took part in the "Voz da Cidadão" programme of RTP1 on 16 November, speaking about migration of the DTT network. (+)

José Nelson Melim, head of the ANACOM office in Madeira, took part on 7 November in the monthly space dedicated to ANACOM on Rádio Jornal da Madeira, and spoke about the contracting of electronic communication services. (+)

On 28 October he appeared in the "Telejornal da Madeira" programme of RTP Madeira, speaking about:

- mobile internet speed in the autonomous region of Madeira; (+)
- contracting of electronic communication services. (+)

José Pedro Borrego of the Spectrum Management Intervention Unit took part in the "Bom Dia Portugal" programme of RTP1 on 25 November, discussing 5G technology. (+)

## OPERATORS/PROVIDERS OF COMMUNICATION NETWORKS AND SERVICES

PROVIDERS OF ELECTRONIC COMMUNICATION SERVICES		No. of registered entities <sup>(a) (b)</sup>	No. of operational entities <sup>(a) (c)</sup>
<b>TV signal distribution service <sup>(d)</sup></b>	18	12	
<b>Mobile telephone service</b>			
Mobile network operators (MNO)	3	3	
Mobile virtual network operators (MVNO)	5	4	
<b>Telephone service at a fixed location</b>	19	16	
<b>Internet access service</b>			
Fixed broadband	49	40	
Mobile broadband <sup>(e)</sup>	10	9	
<b>Nomad use voice over internet service (nomad VoIP) (f)</b>	28	18	
<b>Public payphone service</b>	4	2	
<b>Virtual calling card service</b>	11	9	
POSTAL SERVICE PROVIDERS		No. of authorised entities <sup>(a) (g)</sup>	No. of operational entities <sup>(a) (h)</sup>
<b>Postal services outside the scope of universal service</b>	75	63	
<b>Postal services covered by the scope of universal service</b>	16	13	

- a) Situation at 30 September 2019.  
 b) Number of companies registered as companies supplying electronic communication networks and services.  
 c) Includes operational providers with retail and/or wholesale supply.  
 d) Includes service supplied in the scope of cable distribution networks (CDNs) (8 operational providers) and via other platforms (4 operational providers).  
 e) Besides MNOs and MVNOs, includes three companies that declared they aimed to provide mobile internet access service in automobile vehicles/other equipment (two of which are already supplying the service).  
 f) Service provided with recourse to the '30' numbering range.  
 g) Number of companies registered as providers of postal services.  
 h) Includes 21 companies supplying the service under the MRW brand on a franchising basis (the company Ibercourier owns the MRW brand), 17 companies supplying the service under the Nacex brand on a franchising basis (the company Logista owns the Nacex brand), one company supplying the service under the Enviária brand on a franchising basis and one company supplying the service under the SEUR brand on a franchising basis.

## EXERCISE OF ACTIVITY - POSTAL SERVICES

By decision dated 14 November, the Autoridade Nacional de Comunicações (ANACOM) set at 0.2489 percent the value of

the t2 contributory percentage to apply to the relevant income of postal service operators, with reference to 2019. (+)

## EXERCISE OF ACTIVITY - ELECTRONIC COMMUNICATIONS

Also by decision dated 14 November, ANACOM set at 0.7851 percent the value of the t2 contributory percentage to apply to

the relevant income of suppliers of electronic communication networks and services, with reference to 2019. (+)

## NEWLY ENACTED LEGISLATION

Corrigendum no. 55-A/2019 (Series I - Diário da República of 31 October), rectifying Administrative Rule no. 284/2019 of 2 September on the amendment of Administrative Rule no. 57/2018 of 26 February, which regulates the functioning and management of the public contracts portal named Portal BASE and approves the data models to transmit. (+)

# ANACOM DECISIONS - SUMMARY OF 3<sup>RD</sup> QUARTER 2019

Complete information available at [www.anacom.pt](http://www.anacom.pt)

DATE	DELIBERATION
12.09.2019	Approval of changes to the reference ducts access offer (RDAO) and the reference poles access offer (RPAO) (final decision) (+)
06.09.2019	Ratification of decision on NOS's request to extend the deadline for responding to the public consultation on the 2020-2022 multiannual activities plan (decision) (+)
03.09.2019	Extension of response deadline for the prior hearing and public consultation on changes to the RDAO and RPAO (decision) (+)
30.08.2019	Cancellation of the registration of Globe Logistics (decision) (+)
30.08.2019	Cancellation of the registration of Códigos Cruzados (decision) (+)
30.08.2019	Cancellation of the registration of Transportes Garcia & César (decision) (+)
29.08.2019	Extension of the response deadline for the public consultation on the 2020-2022 multiannual activities plan - request of NOS Comunicações (decision) (+)
28.08.2019	Cancellation of the registration of Iberperímetro (decision) (+)
28.08.2019	Cancellation of the registration of Transporta - Transportes Porta a Porta (decision) (+)
28.08.2019	Cancellation of the registration of Augusto José Concha Encarnado (decision) (+)
27.08.2019	Extension of the response deadline for the public consultation on the 2020-2022 multiannual activities plan - request of Nowo/Oni (decision) (+)
26.08.2019	Issuance of declaration to LEOSAT Portugal for provision of electronic communication services (decision) (+)
26.08.2019	Issuance of declaration to Société Legos for provision of electronic communication service (decision) (+)
21.08.2019	CTT proposal that complements the objectives for postal network density and minimum supplies of services set by the ANACOM decision dated 15.09.2017 (final decision) (+)
21.08.2019	Notification to the European Commission of the draft decision on the cost-of-capital rate of MEO applicable to financial year 2019 (draft decision) (+)
21.08.2019	Changes to the DTT network (MUX A) to free the 700 MHz band - development plan and calendar (draft decision) (+)
08.08.2019	2020-2022 multiannual activities plan (draft decision) (+)
01.08.2019	Tender to audit results of the cost accounting and audit system for the inventory of assets pertaining to the concession of CTT - Correios de Portugal (financial years 2018 and 2019) (decision) (+)
01.08.2019	Dispute between Fibroglobal, Infraestruturas de Portugal and IP Telecom concerning application of the price table for access to infrastructures and services of the technical channel in roads (draft decision) (+)
25.07.2019	Calculation of the amount of the regulation costs for the 2019 fees - postal services (decision) (+)
25.07.2019	Calculation of the amount of the regulation costs for the 2019 fees - electronic communications (decision) (+)
25.07.2019	Approval of award of the right to use the short number 147 to the Administrative Modernisation Agency (decision) (+)
25.07.2019	Changes to the RDAO and RPAO not included in the decision of 25.07.2019 (draft decision) (+)
25.07.2019	Notification to the European Commission of the draft decision on changes to the RDAO and RPAO (draft decision) (+)
25.07.2019	Complaint filed by Vodafone against the ANACOM decision regarding the request for intervention of MEO regarding noncompliance with procedures for installing customer drops in the RPAO scope (final decision) (+)
25.07.2019	Approval of the determination that CTT should correct the information released regarding obligations envisaged in the system applying to the complaint book (final decision) (+)
25.07.2019	Approval of the draft 4th edition of the ITED Manual and the draft 3rd edition of the ITUR Manual (draft decision) (+)
18.07.2019	Approval of the regulation governing the system for accessing and exercising space activities (final decision) (+)
18.07.2019	Request by CTT to deduct records of mail affected by air traffic interruptions for the purpose of calculating the 2019 quality of service indicators (decision) (+)
15.07.2019	Cancellation of registration of Fractalia Remote Systems Portugal (decision) (+)
11.07.2019	Approval of values of the universal postal service quality indicators verified by CTT in 2018 (final decision) (+)
11.07.2019	Revision of objectives for postal network density and minimum service offerings (draft decision) (+)
04.07.2019	Report on administrative costs and the amount of fees collected referring to financial year 2018 (decision) (+)
04.07.2019	Approval of the cost-of-capital rate of CTT applicable to financial year 2019 (final decision) (+)
04.07.2019	Cost-of-capital rate of MEO applicable to financial year 2019 (draft decision) (+)
04.07.2019	Request by CTT to deduct from records of priority mail and registered mail for the purpose of calculating the quality of service indicators for January 2019 (final decision) (+)

# COMMUNICATIONS AROUND THE WORLD

## EUROPEAN UNION

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### WIFI4EU VOUCHERS

In the third WiFi4EU call, 47 municipalities received vouchers; there had been 55 candidacies from local governments. A total of 254 municipalities have been awarded funds to install WiFi; only 54 Portuguese municipalities have yet to receive them. The last call in the scope of this initiative is due to occur during the first quarter of 2020. (+)

### ULTRA-FAST CONNECTIVITY IN THE BASQUE COUNTRY

The Basque regional government has launched the "PEBA Basque Country broadband project", the aim being to boost the region's industrial competitiveness, ensure that it remains attractive for business and younger generations, and to raise its citizens' standard of living. This project began in 2014 and currently covers 96 percent of the region's industrial properties and families. Companies have access to connectivity at 300 Mbps, while homes have between 30 and 100 Mbps. (+)

### REVISION OF THE ROAMING MARKET - REPORT

The European Commission (EC) published on 29 November a report on the first complete revision of the roaming market, showing that users throughout the European Union (EU) have benefited from the end of roaming rates in June 2017. The use of mobile roaming data in the EU was up ten times year-on-year, with peak use twelve times higher during the holiday period. (+)

## ENISA

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### SECURITY FOR CONNECTED CARS

The European Union Agency for Cybersecurity (ENISA) published last 25 November a report on good practices for the security of smart cars. The specific aim is to identify emergent threats in the smart car ecosystem and possible security measures and good practices to mitigate them. (+)

### CEF TELECOM

During the fourth call in the scope of the Connecting Europe Facility (CEF) on cybersecurity, 39 proposals were submitted by companies from the areas of transportation, energy, information and communication technologies (ICTs), finance, health and water distribution, and from ministries and national organisations of 18 EU member-states and Norway. The candidates proposed total investment of more than 25.4 million euros to improve their operational cybersecurity capabilities, of which 18.7 million will be co-financed by the EU. (+)

### BUSINESS PLATFORM

The EC has launched a survey meant to garner comments and suggestions so that guidelines can be drawn up on transparency classification, addressed to online services (e.g e-commerce, app stores, travel agencies) which will have added obligations in that scope as from 12 July 2020, pursuant to the new Regulation (EU) 2019/1150 of 20 June, applicable from that date on. (+)

### ELECTRONIC IDENTIFICATION

Under Regulation (EU) no. 910/2014 of 23 July concerning electronic identification and trustworthy services for electronic transactions in the internal market, since November the citizens of six member-states (Germany, Italy, Estonia, Spain, Croatia and Luxembourg) have been able to use their electronic ID systems in online public services of other EU states. (+)

### SITUATION OF 5G THREATS

ENISA published last 21 November a report on threats to the fifth generation of mobile telecommunication networks (5G). Its production was supported by the EU member-states, the EC and a group of experts. This document complements the report released in October 2019. (+)

## ANACOM INTERNATIONAL ACTIVITY

The Autoridade Nacional de Comunicações (ANACOM) represents the Portuguese communications sector before relevant international organisations and recently took part in meetings in the scope of the Body of European Regulators for Electronic Communications (BEREC), the European Conference of Postal and Telecommunications Administrations (CEPT), the European Eastern Partnership (EaP), the European Regulators Group for Postal Services (ERGP), the Organisation for Economic Cooperation and Development (OECD), the Equipment Compliance Association (REDCA) and the Postal Union of the Americas, Spain and Portugal (PUASP).

### BEREC

The following meetings were held in Brussels:

- Contact Network - 14-15 November; (+)
- WG Mid-Term Strategy - 5 November; (+)
- 2nd technical workshop for the discussion of geographical survey methodologies - 22 October; (+)
- End Users EWG - 18 October; (+)
- Workshop "Open internet, open devices and open digital platforms?" - 9 October. (+)

### CEPT

- ECC WG NaN - 19-21 November in Copenhagen; (+)
- WG FM PT44 - 18-20 September in Athens; (+)
- ECC PT1 - 10-12 September in Riga. (+)

### EaP

- Regulators Group (plenary meeting and workshop) - 26-27 November in Riga. (+)

### ERGP

- Plenary meeting - 29 November in the Hague; (+)
- WG Cross-border parcel delivery - 8 October in Mainz, Germany. (+)

### OECD

- Committee for Digital Economy Policy - 21-22 November in Paris. (+)

### REDCA

- REDCA - 5-6 November in Valletta, Malta. (+)

### UPAEP

- CEC - 18-21 November in Montevideo, Uruguay. (+)

## WORKSHOP ON THE CONNECTING EUROPE FACILITY 2

ANACOM held last 25 November in Lisbon a workshop on the second generation of funds associated to the Connecting Europe Facility (CEF2). Highlights included speeches by: i) the attaché of Portugal's permanent representation before the European Union, Filipe Batista, who spoke of the importance of interconnection between Europe and Africa using international

submarine cable systems; ii) ANACOM's director of external relations, who also called attention to the vital importance of renewing the submarine cable system linking the Azores, Madeira and mainland Portugal; and iii) the director of Market Regulation, Luís Manica, who identified upcoming challenges to face in the very-high-speed broadband market. (+)

## TECHNICAL VISIT OF THE SLOVAKIAN REGULATOR

A technical visit to ANACOM by the Slovakian regulatory authority (Regulatory Authority for Electronic Communications and Postal Services - RÚ) took place on 18-22 November. Beyond the presentation given by RÚ on the communications sector in Slovakia, various subjects were discussed and analysed, of which the following stand out: legal framework of the sector and process of implementing the European

Electronic Communications Code; infrastructure sharing; centralised information system; information security regulation; process of implementing 5G; digital terrestrial TV switchover; market supervision and control (net neutrality, quality of service); ANACOM consumer portal; regulation of markets; and numbering. This action ended with a visit to the ANACOM laboratories in Barcarena.

## INTERNET GOVERNANCE FORUM

The Portuguese initiative of the Internet Governance Forum took place on 13 November at Pole 1 of the University of Beira Interior in Covilhã. Highlights among the questions discussed

include the emphasis on cooperation among all users, whether private individuals, companies or the state. The issue of illegal content was also considered.

# NEWS FROM OTHER COUNTRIES

## GERMANY - Bundesnetzagentur (BNetzA)

- The 5G spectrum rates for local uses have been established. With the agreement of the respective ministries, the regulator set the rates for spectrum in 3.7GHz/3.8 GHz. The formula used was conceived to ensure efficient spectrum use. The larger the bandwidth and area covered, the higher the rate will be. The base value was determined so as not to create obstacles for business models such as start-ups, small and medium sized enterprises or farming businesses. (+)

## ARGENTINA - Ente Nacional de Comunicaciones (ENACOM)

- The Technical Frequencies Plan for Open Digital Terrestrial Television has been approved in the cities of La Rioja, Posadas and Corrientes. Offerings should be made solely via the TAD Distance Processing platform of the Electronic Document Management System. (+)

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

- Steps have been taken against eleven telecom operators for noncompliance with consumer protection rules. (+)

## UNITED STATES OF AMERICA - Federal Communications Commission (FCC)

- Reports from the Intergovernmental Advisory Committee have been released, addressed to state, local, tribal and territorial authorities as well as other interested parties. The aim is to provide recommendations and good practices for improving emergency alerts, boosting confidence in communications during disasters and promoting use of telemedicine. (+)

## SPAIN - Comisión Nacional de los Mercados y la Competencia (CNMC)

- Telefónica has been sanctioned the amount of 6 million euros for the continued practice of two infringements consisting of discriminatory conduct with respect to its competitors, namely regarding the provision of wholesale copper-wire and fibre services. (+)
- The designation period for the provision of universal telecommunication service, specifically regarding connection to the public telephone network from a fixed location, the provision of telephone service publicly available at a fixed location and the supply of public telephones (booths) ends on 31 December. The public tender is the procedure to designate the operators responsible for supplying universal service (the operator currently designated to supply universal service is Telefónica). (+)

## FINLAND - Finnish Transport and Communications Agency (TRAFICOM)

- Statistics on fast fixed broadband were released on 12

November, showing an increase in families. At the end of June, more than 40 percent of home fixed broadband subscriptions supplied access with at least 100 Mbps download speed. Average upload speed is still low, but has been posting rapid growth. (+)

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

- The annual barometer on the transition to IPv6 in France has been published, highlighting that by the end of 2019 the addresses of version 4 of the Internet Protocol (IPv4) will be exhausted and the internet will stop growing. (+)
- A proposal sent to the government has been published. It concerns the allocation of 5G frequencies (3.4-3.8 GHz) in 60 MHz blocs for a 15-year period, with the following generally standing out: i) the obligation to customise supply to meet the requisites of municipalities and companies; ii) the obligation for each operator to cover at least two cities in 2020, 3,000 sites in 2022, 8,000 sites in 2024, 10,500 sites in 2025, all motorways in 2025 and all main roads in 2027. (+)

## GREECE - Hellenic Telecommunications & Post Commission (EETT)

- A public consultation on amendment of the Regulation on Management and Allocation of Numbering Resources from the National Numbering Plan ran from 14 November to 13 December. (+)

## INDIA - Telecom Regulatory Authority of India (TRAI)

- A public consultation on interoperability of set-top boxes for digital television transmission services ran from 11 November to 9 December. (+)
- Recommendations on platform services offered by direct-to-home (DTH) operators were released on 13 November. These recommendations were drawn up based on the regulator's analysis and on contributions from stakeholders presented during the consultation process held. (+)

## IRELAND - Commission for Communications Regulation (ComReg)

- Information addressed to consumers has been published, concerning how to avoid undesirable and unsolicited calls, namely the possibility of being included in the so-called 'not call register', which consists of a national database with information about preferences of consumers (listed therein) regarding contacts associated to marketing or surveys. (+)

## UNITED KINGDOM - Office of Communications (Ofcom)

- The price comparison service Billmonitor has again been accredited after 10 years. (+)

## **PORTUGUESE URSI COMMITTEE**

The Portuguese Committee of the International Union of Radio Science (URSI), whose work is carried out by the Autoridade Nacional de Comunicações (ANACOM), held its 13th congress

on 17 December at the Ramada Lisbon Hotel. This year's theme was "Space: challenges and opportunities". (+)

## **WORKSHOP “CEF 2” - PRESENTATIONS**

The presentations given at the ANACOM-organised workshop on the Connecting Europe Facility 2, held on 25

November at the SANA Malhoa Hotel in Lisbon, are available for consultation. (+)

## **DECISION ON DISPUTE**

On 31 October ANACOM approved the final decision on the dispute between Fibroglobal Comunicações Electrónicas, Infraestruturas de Portugal and IP Telecom concerning application of the price table for

accessing infrastructures and services of the technical channel in roads. Also approved was the report from the prior hearing that the respective draft decision of 1 August was subject to. (+)

## **COFINA - ANACOM FORWARDS OPINION TO ADC**

On the same date, ANACOM approved the opinion to forward to the Competition Authority (AdC) on the merger operation between Cofina and Grupo Media Capital, concluding that

this operation did not raise major competitive questions in electronic communications markets. (+)

## **DRAFT ITED AND ITUR MANUALS - EC NOTIFICATION**

ANACOM approved on 14 November the draft manuals on telecommunication infrastructures (ITED 4th edition and ITUR 3rd edition) to notify to the European Commission (EC) via the Portuguese Quality Institute (IPQ). Note that per the

terms of applicable legislation, ANACOM's final approval of these drafts cannot occur until three months have passed since they were received by the EC. (+)

## **TOP PRICE OF CAM LINES LOWER**

The deadline for submitting contributions in the scope of the ANACOM consultation on revision of the prices of lines linking the Portuguese mainland to the autonomous island regions of the Azores and Madeira (known as CAM lines) and of lines linking

various islands in the Azores (inter-island lines) in the scope of the leased lines reference offer (LLRO) and the reference Ethernet capacity offer (RELLO) was 20 November. (+)

## **DRAFT REGULATION - E.164 RESOURCES OF THE NNP**

ANACOM began on 17 October the procedure for drawing up a regulation on conditions applicable to sub-allocation of E.164 resources of the National Numbering Plan (NNP). The draft

regulation will be submitted to public consultation as duly envisaged in article 10 of the ANACOM statutes. (+)

## **DRAFT REGULATION - INFRASTRUCTURES**

ANACOM approved on 12 December the draft regulation on the methodology to use to set the amount electronic communication companies must pay to compensate for

access and use of infrastructures able to house electronic communication networks. (+)