

Annex I – List of acronyms and abbreviations

ADSL.....	Asymmetric digital subscriber line
NRA	National regulatory authority
ATM	Asynchronous transfer mode
BWA	Broadband wireless access
USNC	Universal service net cost
Price Agreement	Universal Postal Services Price Agreement
Quality Agreement	Universal Postal Services Quality Agreement
RC	Regulatory costing
DC	Direct current (at -48 Volt)
DSLAM.....	Digital subscriber line access multiplexer
DTH.....	Direct to home
DVB-H.....	Digital video broadcasting – handheld
ENUM	Electronic Numbering
FWA	Fixed wireless access
GHz.....	Gigahertz (frequency unit equal to one billion Hertz)
GSM.....	Global system for mobile communications
HDF.....	Handover distribution frame
WG	Working group
OQSI	Global quality of service indicator
IP.....	Internet Protocol
IPC	Consumer price index
IPTV	Internet protocol television
IQS	Quality of service indicators
Kbps	Kilobits per second (thousands of bits per second)
ECL	Electronic Communications Law (Law no. 5/2004, of 10 February)
Mbps	Megabit per second (millions of bits per second)
MHz.....	Megahertz (frequency unit equal to one million Hertz)
MMS.....	Multimedia message service
MSS	Mobile satellite services
MVNO	Mobile virtual network operator
Naked DSL.....	Wholesale reference offer of exclusive subscriber line for DSL services
NGN	New generation networks
LLU	Local Loop Unbundling

IPO	Initial Public Offer
OSP	Other Service Providers
RCAO	Reference conduit access offer
RUO	Reference unbundling offer
LLRO	Leased lines reference offer
WLRO	Wholesale line rental offer
SMP	Significant market power
NNP	National numbering plan
RIO	Reference Interconnection Offer
USP	Universal service provider
NFAP	National frequency allocation plan
ISDN	Integrated services digital network
PSTN	Public Switched Telephone Network
AAS	Analytical accounts system
TETRA	Terrestrial trunked radio service
DD	ICP-ANACOM's draft determination
FST	Telephone service at a fixed location
MTS	Mobile telephone service
US	Universal service
DTT	Digital terrestrial television
UMTS	Universal mobile telecommunications system
UWB	Ultra wideband
VoIP	Voice over Internet Protocol
x-DSL	All types of DSL technology
WACC	Weighted average cost of capital
WAPECS	Wireless access policy for electronic communications services
WRC-07	World Radiocommunication Conference 2007

Annex II – List of operators

- Bragatel.....Bragatel – Companhia de Televisão por Cabo de Braga, S.A.
- CabovisãoCabovisão – Televisão por Cabo, S.A.
- CTTCTT – Correios de Portugal, S.A.
- Grupo PTGrupo Portugal Telecom
- NovisNovis Telecom, S.A.
- OniTelecom.....OniTelecom – Infocomunicações, S.A.
- Optimus.....Optimus – Telecomunicações, S.A.
- Pluricanal LeiriaPluricanal Leiria – Televisão por Cabo, S.A.
- Pluricanal Santarém.....Pluricanal Santarém – Televisão por Cabo, S.A.
- PTCPT Comunicações, S.A.
- Sonaecom.....Sonaecom, S.G.P.S., S.A.
- Telemilénio.....Telemilénio, Lda.
- TMNTMN – Telecomunicações Móveis Nacionais, S.A.
- TV Cabo.....CATVP – TV Cabo Portugal, S.A.
- TVTEL.....TVTEL Comunicações, S.A.
- Vodafone PortugalVODAFONE PORTUGAL – Comunicações Pessoais, S.A.

Annex III – List of other entities/organizations

AdC	Competition Authority
EC	European Commission
CEPT	European Conference of Postal and Telecommunications Administrations
COCOM	Communications Committee
ECTA	European Competitive Telecommunications Committee
EPRA	European Platform of Regulatory Authorities
ERG	European Regulators Group
ETSI	European Telecommunications Standards Institute
GMCS	Office for the Media
ICP-ANACOM	ICP – Autoridade Nacional de Comunicações
IRG	Independent Regulators Group
RSC	Radio Spectrum Committee
RSPG	Radio Spectrum Policy Group
EU	European Union
ITU	International Telecommunication Union

Annex IV – Graph index

Graph 1. Evolution in the number of subscribers of FWA triple-play offers	14
Graph 2. Average termination prices (January 2008)	17
Graph 3. Evolution in the amount of unbundled local loops.....	19
Graph 4. Percentage of unbundled loops regarding the incumbent operator's loops.....	19
Graph 5. Evolution in the number of exchanges with co-located operators.....	20
Graph 6. LLU's coverage in terms of FTS subscribers – main switchboards ordered decreasingly regarding the number of loops in use	20
Graph 7. Local loop monthly fee (full access) – EU15 comparison	24
Graph 8. Local loop monthly fee (shared access) – EU15 comparison	24
Graph 9. Local loop installation fees (full access) – EU15 comparison	25
Graph 10. Local loop installation fees (shared access) – EU15 comparison.....	25
Graph 11. Annual price of 64 Kbps digital lines in Europe (November 2007).....	31
Graph 12. Annual price of 2 Mbps digital lines in Europe (November 2007)	32
Graph 13. Annual price of 34 Mbps digital lines in Europe (November 2007)	32
Graph 14. European comparisons – fixed interconnections prices (call origin and termination)	34
Graph 15. European practices regarding the pre-selection activation price (2007)	36
Graph 16. European practices regarding individual number portability price (2007)	37
Graph 17. European comparisons – portability prices (2007).....	38
Graph 18. Information presented by PTC on analogue accesses with activated SLRO, excluding activations from Group PT companies.....	40
Graph 19. Amount of replies to information requests.....	42
Graph 20. Amount of replies to viability analysis requests.....	42
Graph 21. Amount of works within the scope of the RCAA	43
Graph 22. Accumulated amount of numbers distributed nation-wide since 2000	55
Graph 23. Evolution in the number of ported numbers	56
Graph 24. Cumulative amount of mobile numbers transferred as a percentage of the total amount of mobile numbers (October 2006 and 2007)	57
Graph 25. Percentage of fixed numbers versus total main telephone accesses (cumulative values until the end of 2006)	57

Graph 26. Evolution in the amount of indirect access customers using pre-selection	58
Graph 27. Deviation rate of the accomplished amount of public payphones in 2007 versus the foreseen amount	62
Graph 28. Evolution in nominal terms of FTS prices for residential customers (base year = 1998)	64
Graph 29. Real evolution of FTS prices for residential customers (base year = 1998)	65
Graph 30. Comparison of average wholesale prices (revenues per invoiced minute) of the calls made outside the groups, in the EU (2007)	69
Graph 31. Comparison of average retail prices (revenue per invoiced minute) of calls made in the EU (2007)	70
Graph 32. Evolution in real terms of the basic tariff (1993 = 100): normal and priority mail, national	74
Graph 33. Basic tariff of the domestic priority mail.....	75
Graph 34. Basic tariff domestic non-priority mail	76
Graph 35. Overall quality of service indicator	79
Graph 36. Communications from CTT in the scope of Basis XX, no. 4 of the Concession	80
Graph 37. Evolution in the amount of postal stations.....	81
Graph 38. Evolution in the quarterly amount of complaints, per reception medium.....	87
Graph 39. Complains per reception medium	87
Graph 40. Complaints by sector	88
Graph 41. Postal sector complaints, per service.....	90

Annex V – Table index

Table 1. Percentage of price reductions in the local access classes for the IP aggregation mode and for aggregated access (with IP aggregation)	28
Table 2. Naked DSL availability in several Member States	30
Table 3. Comparison of interconnection prices with EU15 in 2007 (price per minute of a three minute call)	35
Table 4. Maximum SLRO prices for ISDN accesses (figures in Euros, excluding VAT)...	41
Table 5. Geographic numbers – evolution of the national stand.....	53
Table 6. Non-geographic numbers – evolution of the national stand.....	53
Table 7. Audiotext non-geographic numbers – evolution of the national stand	54
Table 8. Accumulated amount of numbers distributed nation-wide since 2000	55
Table 9. Universal service quality of service parameters.....	60
Table 10. Amount of public payphones foreseen and effectively accomplished in 2007..	62
Table 11. Deviation in the amount of public payphones accomplished in 2007 and the amount foreseen by PTC for that year	63
Table 12. QSI defined by the Quality Convention for 2006 and 2007.....	76
Table 13. Services with most complaints (electronic communications)	88
Table 14. Total complaints per issue (electronic communications).....	89

Annex VI – Figure index

Figure 1. Schedule associated to the approval of the final decision on market 18	14
Figure 2. Location of the switchboards where OSPs enjoy LLU in Mainland Portugal (4th quarter 2007)	21
Figure 3. Location of switchboards with DSLAM (digital subscriber line access multiplexer) and subscribers (evolution from 3rd quarter 2006 to 3rd quarter 2007).....	27