

# INFORMATION/DETAILS TO BE SUBMITTED BY PUBLIC TELECOMMUNICATIONS NETWORK OPERATORS <sup>(1)</sup> IN CONNECTION WITH THE MONITORING OF THEIR ACTIVITY AND THE GATHERING OF MARKET INFORMATION

Information/Details to be provided	Applicability	Regularity
<b>1. GENERAL INFORMATION REGARDING THE TELECOMMUNICATIONS NETWORK [ACCESS NETWORK (EXCLUDING FWA<sup>2</sup>), SWITCHING NETWORK AND CARRIER/TRANSMISSION NETWORK] – OPERATORS OWN RESOURCES AND THIRD PART RESOURCES</b> <ul style="list-style-type: none"> <li>- Summary diagram of the entire network, showing the capacity and technology installed, stretch by stretch, distinguishing between the operator's own resources and third party resources</li> <li>- Network Coverage: cities covered and % of Portuguese territory covered</li> </ul>	ALL OPERATORS	INITIALLY AND THEN ANNUALLY OR WHENEVER THERE ARE ALTERATIONS
<b>2. INFORMATION REGARDING THE OPERATOR'S OWN CARRIER/TRANSMISSION NETWORK, (EXCLUDING FWA<sup>2</sup>) AND OTHER INFRASTRUCTURES/EQUIPMENT – ONLY THE OPERATORS OWN RESOURCES (EXCLUDING RESOURCES LEASED FROM THIRD PARTIES).</b> <ul style="list-style-type: none"> <li>- <b>Operator's own Carrier/Transmission Network (network core):</b>  <u>Km of carrier network according to Transmission Type</u>  No. of Km of carrier network, broken down according to the type of technology (Analogue, SDH, PDH, DWDM<sup>3</sup>, when applicable) respectively: <ul style="list-style-type: none"> <li>. Operator's own optic fibre installed (excluding dark fibre) in Km.pair</li> <li>. Copper: traditional copper wires in Km.pair. and coaxial cable in Km</li> <li>. Radio links in Km</li> <li>. Satellite links in Km between land stations (satellite network services operator)</li> </ul> Include the % capacity occupied, in the case of optic fibre, copper wire and radio links   <u>Carrier network according to Capacity (transmission speed)</u>  Indicate, in relation to the digital carrier network, the % of: <ul style="list-style-type: none"> <li>. Carrier network used in Low capacity (transmission speed of up to 140 Mbit/s)</li> <li>. Carrier network used in Medium capacity (transmission speed of up from 140 to 622 Mbit/s)</li> <li>. Carrier network used in High capacity (transmission speed in excess of 622 Mbit/s)</li> </ul> </li> <li>- <b>Access/Distribution Network (excluding FWA<sup>2</sup>)</b>  <u>Total no. of physical accesses installed.</u> Detail according to support: <ul style="list-style-type: none"> <li>. Pair of copper wire</li> <li>. Coaxial cable (including hybrid coaxial-fibre access)</li> <li>. Optic fibre</li> <li>. Via satellite</li> <li>. Others. State which.</li> </ul> </li> <li>- <b>Other equipment/infrastructures</b>  Indicate the existence, location and number of the following infrastructures/equipment: <ul style="list-style-type: none"> <li>. Equipment for legal interception of communications</li> </ul> </li> </ul>	ALL OPERATORS WITH A LICENCE WHICH INVOLVES THE ESTABLISHMENT OF A NETWORK	INITIALLY AND THEN ANNUALLY OR WHENEVER THERE ARE ALTERATIONS

<sup>1</sup> Including Portugal Telecom in the area of its activity covered by the Regulation for the Operation of Public Telecommunications Networks

<sup>2</sup> The information regarding FWA must be dealt separately, according to the licences issued

<ul style="list-style-type: none"> <li>. Interconnection equipment</li> <li>. Dark optic fibre (Km.pair)</li> <li>. Ducting (Km.hole)</li> </ul>		
<b>3. INFORMATION REGARDING RIGHTS OF PASSAGE AND INFRASTRUCTURE SHARING HELD BY THE OPERATOR IN RESPECT OF PUBLIC NETWORKS</b> Indicate the extent to which and manner in which the operator has been (or is) permitted/negotiated access via other operators to: <ul style="list-style-type: none"> <li>- Optic fibre (illuminated and dark)</li> <li>- Posts/poles</li> <li>- Conduits</li> <li>- Other installations</li> </ul>	ALL OPERATORS WITH A LICENCE WHICH INVOLVES THE ESTABLISHMENT OF A NETWORK	INITIALLY AND THEN ANNUALLY OR WHENEVER THERE ARE ALTERATIONS
<b>4. INFORMATION REGARDING INTERCONNECTIONS WITH NETWORKS OF OTHER OPERATORS (DOMESTIC AND FOREIGN)</b> <ul style="list-style-type: none"> <li>- Via links on the operators own circuits</li> <li>- Via links on leased circuits</li> </ul> Detail the no. of circuits and the corresponding capacity in each case	ALL OPERATORS	INITIALLY AND THEN ANNUALLY OR WHENEVER THERE ARE ALTERATIONS
<b>5. INFORMATION REGARDING THE UNUSED CAPACITY OF THE NETWORK</b> Indicate the % unused capacity detailed according to transmission type (pair of copper, coaxial cable, optic fibre... ) <sup>4</sup> : <ul style="list-style-type: none"> <li>- <u>of the carrier network</u></li> <li>- <u>of the access network</u></li> </ul> In the case of fixed telephone networks, also state the unused capacity associated with the fixed subscriber access system according to municipality.	ALL OPERATORS	QUARTERLY
<b>6. INFORMATION REGARDING THE INVESTMENT MADE IN NETWORK AND OTHER INFRASTRUCTURES/EQUIPMENT</b> <ul style="list-style-type: none"> <li>- <u>State the overall investment made in the following infrastructures:</u> <ul style="list-style-type: none"> <li>. Carrier/transmission network</li> <li>. Access/distribution network (i.e., investment in DLS, ADLS, Others)</li> <li>. Switching network</li> </ul>           Itemise (i.e., investment in optic fibre, copper, coaxial cable and radio resources) detailing:           <ul style="list-style-type: none"> <li>. Expansion investment</li> <li>. Replacement investment</li> </ul> </li> <li>- <u>State the investment made in:</u> <ul style="list-style-type: none"> <li>. Interconnection equipment</li> <li>. Equipment for legal interception of communications</li> <li>. Conduits and posts</li> </ul> </li> </ul>	ALL OPERATORS WITH A LICENCE WHICH INVOLVES THE ESTABLISHMENT OF A NETWORK	ANNUALLY

<sup>3</sup> The no. of Km with regard to DWDM should not be added to the figures indicated for other technologies, i.e., the kms indicated should already be included as SDH, PDH, etc.

<sup>4</sup> In order to determine the % unused capacity apply the following according to the case:

- **Optic fibre and copper cable (non-coaxial)** » » % unused capacity = 
$$\frac{\text{no. of unused Km/pair}}{\text{no. of total Km/pair}}$$
- **Radio** » » % unused capacity = 
$$\frac{\text{unoccupied capacity (bps)}}{\text{total capacity of the equipment installed (bps)}}$$
- **Satellite** » » % unused capacity = 
$$\frac{\text{unused capacity (bps)}}{\text{total capacity contracted (bps)}}$$

<b>7. INFORMATION REGARDING NETWORK OPERATOR SERVICES<sup>5</sup> PROVIDED WITHIN THE AMBIT OF THE SUPPLY OF NETWORK CAPACITY</b> Indicate the services actually provided or which are to be provided in the ambit of the supply of network capacity to third parties: <ul style="list-style-type: none"> <li>- Supply of Leased Circuits,</li> <li>- Supply of ADSL capacity to third parties,</li> <li>- Interconnection Services,</li> <li>- Other Network Access Services (services which involve the provision of resources and/or services to third parties for the supply of public telecommunications services, i.e.: access to network components and resources and associated services, access to certain facilities and functions, leasing of conduits, posts and other installation equipment, grant of rights of passage, leasing/sale of fibre optics...). Detail.</li> </ul>	ALL OPERATORS WHICH PROVIDE NETWORK CAPACITY	INITIALLY AND THEN ANNUALLY OR WHENEVER THERE ARE ALTERATIONS
<b>8. INFORMATION REGARDING CLIENTS/SERVICES</b> Indication of the no. of clients Detail by type: <ul style="list-style-type: none"> <li>- Others public network operators and telecommunications service providers</li> <li>- Holders of authorised private networks</li> <li>- End client (business segment/ residential segment)</li> </ul> And by service <sup>5</sup>	ALL OPERATORS WHICH PROVIDE NETWORK CAPACITY	QUARTERLY
<b>9. INFORMATION REGARDING THE SUPPLY OF LEASED CIRCUITS</b> <ul style="list-style-type: none"> <li>- <b><u>Information regarding the No. of clients and No. of circuits and stretches</u></b>              Detail according to:              . <b>Municipality</b> (local circuit terminations/access to the end subscriber according to municipality)              . <b>Circuit type:</b>              .. domestic/international,              .. according to technical characteristics (analogue /digital:capacity: &lt;64 Kbps, 64 Kbps, nx64 Kbps, 2 Mbps, 34 Mbps, 140 Mbps, 155 Mbps, 622 Mbps, 2,5 Gbps),              .. and length (&lt;=5 Km, &gt;5Km&lt;=30Km, &gt;30Km&lt;=50Km, &gt;50Km&lt;=100Km, &gt;100Km&lt;=300Km, &gt;300Km)              . <b>Type of client and use:</b>              .. Public telecommunications network operators and providers of public use telecommunications services: for <u>private use/establishment of the network</u> – network transmission circuits and fixed subscriber access system circuits – and for <u>interconnection with other operators</u>              .. Holders of authorised private networks              .. End Clients (business/residential)              State when the circuits are supplied via satellite telecommunications systems</li> <li>- <b><u>Total capacity installed (circuits equivalent to 64 kbps) and digital capacity (%):</u></b>              . operators and providers              . holders of authorised private networks              . end client</li> <li>- <b><u>% of Km of circuits using copper cables (normal and coaxial), optic fibre and via radio links</u></b></li> </ul>	ALL OPERATORS WHICH PROVIDE NETWORK CAPACITY	QUARTERLY
<b>10. INFORMATION REGARDING THE TOTAL TRAFFIC THROUGH THE NETWORK</b> <b>Detail the following independently of the service concerned:</b> <ul style="list-style-type: none"> <li>. traffic with its source and destination in the operator's network</li> <li>. traffic passing through the operator's network</li> <li>. traffic with its source in the operator's network destined for other domestic and international operators</li> <li>. traffic with its source in other domestic and international operators' networks destined for the operator's network</li> </ul> <i>(Unit: minutes, bps or Erlang, according to the type of network and services supported. It is necessary to state the unit)</i>	ALL OPERATORS	QUARTERLY

<sup>5</sup> These are not telecommunications services for public use provided to final users, but rather network operator services

<i>used in each case)</i>		
<b>11. INFORMATION REGARDING REVENUES</b> Detail the revenues received from the provision of operator services within the ambit of the supply of network capacity: - <b><u>Leased Circuit Revenues:</u></b> . installation . subscription . others Detail according to the type of circuit (analogue/digital: 64 Kbps...2,5 Gbps) and within them by type of client and use (as stated in point 9). - <b><u>Other revenues:</u></b> . Interconnection Services Revenues . Revenues from the Leasing (cession) of conduits and subconduits, space in conduits and subconduits and space on posts for cables from other networks . Leasing revenues from other installations . Revenues from other services provided within the ambit of the supply of network capacity	ALL OPERATORS WHICH PROVIDE NETWORK CAPACITY	ANNUALLY
<b>12. ANNUAL REPORT AND ACCOUNTS OF THE PREVIOUS FINANCIAL YEAR</b>	ALL OPERATORS	ANNUALLY
<b>13. INFORMATION REGARDING NETWORK SUPPLY QUALITY INDICATORS</b> - <b>Service Quality Indicators applicable to public network operators, which provide a Leased Circuit Service:</b> . Average delivery period . Average repair period . Availability	ALL OPERATORS WHICH PROVIDE A LEASED CIRCUIT SERVICE	QUARTERLY
<b>14. NOTICE OF THE ACTUAL COMMENCEMENT OF ACTIVITY (NETWORK OPERATION)</b> - Establishment (own use) - Provision of the network capacity operated to third parties, including supply of leased circuits	ALL OPERATORS	WHEN THE CIRCUMSTANCE ARISES
<b>15. DRAFT SUBSCRIBER CONTRACTS FOR THE USE OF THE PUBLIC NETWORK TO BE APPROVED BY THE ANACOM</b>	ALL OPERATORS WHICH PROVIDE NETWORK CAPACITY	PRIOR TO THE COMMENCEMENT OF THE PROVISION OF NETWORK CAPACITY TO THIRD PARTIES AND WHENEVER THERE ARE ALTERATIONS
<b>16. NOTICE OF ANY ALTERATIONS OF THE COMPANY'S ARTICLES OF ASSOCIATION</b>	ALL OPERATORS	WHEN THE CIRCUMSTANCE ARISES
<b>17. INFORMATION REGARDING THE METHODS USED TO ENSURE COMPLIANCE WITH AND RESPECT FOR DATA PROTECTION AND THE CONFIDENTIALITY OF THE COMMUNICATIONS SUPPORTED ON THE NETWORK OPERATED</b>	ALL OPERATORS	INITIALLY AND THEN ANNUALLY OR WHENEVER THERE ARE ALTERATIONS