ANCOM National Authority for Management and Regulation in Communications of Romania Monitoring compliance with the provisions of the Regulation (EU) no. 2015/2120 on open internet access

01 May 2020 - 30 April 2021



The <u>National Authority for Management and Regulation in Communications</u> (ANCOM) is the body that protects the interests of communications users in Romania, by promoting competition in the communications market, ensuring the management of scarce resources and encouraging innovation and efficient investments in infrastructure. For further information on ANCOM's activity, please visit <u>www.ancom.ro</u>, <u>www.portabilitate.ro</u> and <u>www.veritel.ro</u>. To test and monitor your internet service quality, please access <u>www.netograf.ro</u>

The full or partial reproduction of the content of this document is allowed under the condition that the reproduced or quoted material is presented as resulting from the document created by the National Authority for Management and Regulation in Communications of Romania "Monitoring compliance with the provisions of Regulation (EU) 2015/2120 on open internet access (01 May 2020 – 30 April 2021)" or accompanied by one of the following statements:

- Source: "Monitoring compliance with the provisions of Regulation (EU) 2015/2120 on open internet access (01 May 2020 – 30 April 2021)" – a document created by the National Authority for Management and Regulation in Communications of Romania;
- Source: National Authority for Management and Regulation in Communications of Romania;
- Source: ANCOM;
- a clear statement having the same meaning as the above.

CONTENTS

1. General overview	1
1.1. Legal framework	1
1.2. The institutional implications of Regulation (EU) 2015/2120	2
1.3. Internal actions	3
1.4. External actions	3
2. Compliance monitoring	4
2.1 Commercial practices	4
2.2. Traffic management	6
3. Transparency measures for ensuring open internet access	8
3.1. Data transmission speed	9
3.2. The certified monitoring mechanism – Netograf	10
3.3. Means of ensuring the transparency of the information regarding the qua access service	•
4. Quality of the internet access service	13
5. Transparent, simple and efficient procedures for handling end	-
6. Penalties	16

1. General overview

1.1. Legal framework

Regarding the open internet access, there were no major changes to the applicable legislation in the reference period, hence this matter abides by the same primary and secondary normative acts. Thus, the Romanian legal framework is represented by Regulation (EU) 2015/2120¹ (hereinafter referred to as *the Regulation*) and by the secondary legislation developed by ANCOM on setting quality indicators for the provision of the internet access service and the publication of the related parameters², as well as on the transparency of certain information that providers are required to make available to end-users³.

The Romanian legal framework in the field is also complemented by the national transposition of the transparency obligations related to the traffic management practices provided by the Universal Service Directive, implemented into national law through the provisions of Government Emergency Ordinance no. 111/2011 on electronic communications, approved, with amendments and completions, by Law no. 140/2012⁴, with the subsequent amendments and completions.

In completion to the previously mentioned legal framework, ANCOM issued Guidelines on the implementation of the requirements regarding the inclusion in the contracts of information on the speeds of fixed and mobile internet access services⁵. The Guidelines are aimed to the providers of internet access services and offer recommendations on how to express the speeds mentioned in the provisions of Article 4(1)(d) of Regulation (EU) 2120/2015 and on how to establish the procedure for measuring the speed of the internet access service by the end-users, for both fixed and mobile networks. Further details on these guidelines can be found in Chapter 3 of this report. The guidelines are not mandatory, but include recommendations addressed to providers on how the provisions of Article 4(1)(d) of the Regulation may be applied, as well as on the steps that consumers may take to obtain the remedies available to them under national legislation.

The analysis carried out by ANCOM on the occasion of the annual control action conducted by the Authority – aimed at verifying whether the information mentioned in the provisions of Article 4(1)(a)-(e) of Regulation (EU) 2120/2015 was included in the contracts concluded with the endusers by approximately 30 providers of fixed internet access services – revealed that the Guideline were taken into account by most of the providers when defining the speeds and establishing the procedure for measuring the speeds of the fixed internet access service by the end-users. ANCOM also noted that the respective providers inserted the remedies provided by

¹ Regulation (EU) 2120/2015 laying down measures concerning open internet access and retail charges for regulated intra-EU communications and amending Directive 2002/22/EC and Regulation (EU) No 531/2012;

²ANCOM President's Decision no. 1112/2017 on setting quality indicators for the provision of the internet access service and the publication of the related parameters, with the subsequent amendments and completions;

³ ANCOM President's Decision no. 158/2015 on the obligations to inform the end-users, with the subsequent amendments and completions;

⁴The consolidated version (text available in Romanian) of the Government Emergency Ordinance no. 111/2011 on electronic communications is available at the following address: <u>http://www.ancom.org.ro/uploads/links_files/O_U_G_Nr_111_2011.pdf;</u> ⁵ANCOM's guidelines are available on the Authority's website, in the Industry/Provider guides section, at the following link:

³ANCOM's guidelines are available on the Authority's website, in the Industry/Provider guides section, at the following link: <u>https://www.ancom.ro/uploads/links_files/2019-10-09_Ghid_masurare_viteze_(002).pdf;</u>

national legislation in the standard contracts (the standard contracts are used as a model for the contracts concluded by the ISPs with the end-users, for the provision of fixed internet access services).

Moreover, during the state of emergency (16.03.2020 – 14.05.2020), imposed due to the COVID-19 pandemic by the Decrees of the President of Romania for the establishment, respectively the extension of the state of emergency (Decree no. 195/2020 and Decree no. 240/2020), ANCOM was assigned to issue decisions on blocking specific online content or websites that presented false news about the evolution of COVID-19 and the protection and prevention measures. This measure was implemented by ANCOM based on the requests of the Ministry of Internal Affairs following the proposal presented by the Strategic Communication Group, which analysed and established whether certain information available online falls within the provisions of the decree. During the mentioned period, ANCOM issued 15 blocking decisions. Blocking specific fake content (by interrupting the transmission in an electronic communications network or by interrupting its storage) or blocking websites that presented false news was done either by the hosting service providers or by the electronic communications providers - when the hosting/content providers could not be identified or when they were not under Romanian jurisdiction. The effects of these decisions ceased on 15.05.2020, when the state of emergency ended, and their legal basis expired.

According to Article 5(1) of the Regulation, ANCOM "*shall closely monitor and ensure compliance with Articles 3 and 4*" and "*shall publish reports on annual basis regarding their monitoring and findings*". This report refers to the period between 01.05.2020 and 30.05.2021.

1.2. The institutional implications of Regulation (EU) 2015/2120

In Romania, several national authorities ensure the monitoring and supervision as regards the application of the Regulation.

The main authority responsible for monitoring and ensuring compliance with the provisions of the Regulation is ANCOM, who can verify the compliance by the internet access service providers (hereinafter *ISPs*) with most of the provisions.

No amendments to national laws were required for ANCOM to receive and exercise these powers as the national legislation already contained the necessary provisions in this regard.

Together with ANCOM, two other national authorities are involved in ensuring the observance of the Regulation, as follows:

• The National Consumer Protection Authority (hereinafter *ANPC*) is the authority that can apply sanctions in case of non-observance of the contract provisions, according to the primary national legislation.

In 2010, ANCOM signed an official collaboration agreement with ANPC establishing in detail how the two authorities collaborate, especially to enhance efficiency in solving the complaints received from the consumers. • The National Data Protection Authority (hereinafter *ANSPDCP*) is the only authority responsible for monitoring compliance by the providers with the provisions of the national legislation in the field of data protection, also when enforcing the data protection obligations referred to in Article 3(4) of the Regulation.

ANCOM does not have the power to verify potential breaches of privacy protection obligations.

There is no formal agreement between ANCOM and ANSPDCP, but, according to the Romanian law, if one authority receives a complaint and does not have the legal power to solve it, then it must send the complaint to the competent authority within a 5-day timeframe.

1.3. Internal actions

In the reference period, there were no formal dedicated ANCOM departments/units or teams dealing exclusively with open internet access issues. Tasks regarding monitoring and ensuring compliance with the Regulation were carried out by specialists from various ANCOM units covering technical, economic and legal expertise, along with their regular tasks.

Following the establishment at EU level of the Special Reporting Mechanism (*SRM*)⁶ dedicated to issues raised by the COVID-19 pandemic in terms of internet traffic and networks, the activities carried out at national level for monitoring traffic and other related issues have intensified, while reports to the Body of European Regulators for Electronic Communications (BEREC) and to the European Commission have followed the same trend. Thus, the Authority allocated additional human resources for these activities.

1.4. External actions

At national level, ANCOM organised several (both individual and collective) meetings with industry stakeholders in order to clarify various aspects regarding the implementation of the Regulation's provisions, including aspects mentioned in the BEREC Guidelines⁷ on the implementation by national regulators of European open internet access rules (hereinafter referred to as the *BEREC Guidelines*). The topics approached during these meetings concerned: the quality assessment procedure, respectively the procedure for assessing discrepancies between the speeds specified in contracts and those resulting from measurements, how to define in the contracts the speeds laid down by the Regulation, aspects taken into consideration by providers in establishing (committing to ensure) the respective values, as well as traffic management practices. Discussions with the internet access service providers revealed different approaches to the analysed aspects, so that one cannot refer to a common approach as regards defining speeds or interpreting the meaning of "continuous or regularly recurring discrepancy" in the Regulation. However, ANCOM Guidelines helped to standardize these approaches so that the end-user has clearer, more concise and comparable information, as far as possible.

⁷The full version in English is available at

⁶<u>https://berec.europa.eu/eng/document_register/subject_matter/berec/others/9236-joint-statement-from-the-</u> <u>commission-and-the-body-of-european-regulators-for-electronic-communications-berec-on-coping-with-the-increased-</u> <u>demand-for-network-connectivity-due-to-the-COVID-19-pandemic</u>

https://berec.europa.eu/eng/document_register/subject_matter/berec/regulatory_best_practices/guidelines/6160-berec-guidelines-on-the-implementation-by-national-regulators-of-european-net-neutrality-rules;

At international level, ANCOM continued its active presence in the BEREC Expert Working Group on open internet access issues, as part of the drafting team working on the BEREC report on the implementation of the provisions of Regulation (EU) 2015/2120 in the Member States of the European Union and of the drafting team in charge of the BEREC Report on the effects of the COVID-19 pandemic on the communications networks and services.

2. Compliance monitoring

ANCOM has focused mainly on analysing the complaints received from end-users regarding the provisions of the Regulation and, where needed, has sent requests for information to the internet access service providers. In the reference period, ANCOM received about 95 complaints on the performance of the internet access service (fixed and mobile), most of them being solved by either offering explanations on the applicable contract and legal provisions, or directly by the ISPs. In some cases, to amicably solve the complaints, ISPs even agreed to terminate end-user contracts without any penalties for early termination, despite the end-users being still within the minimal contract period. Following 4 of these complaints, ANCOM found that some information provided in Article 4(1)(a)-(e) of Regulation (EU) 2015/2120 was not included in the contracts concluded with the end-users. Another case of non-compliance detected following complaints was failure to publish information on the speeds of the mobile internet access service, on an ISP's website. The ISPs were sanctioned for all these breaches and remedy measures were imposed, where necessary.

Furthermore, according to the Authority's practice, in respect of transparency in contracts concluded with the end-users, ANCOM initiated its annual verification campaign on approximately 30 ISPs which had not been previously inspected, to check the extent to which the information specified in Article 4(1)(a)-(e) of the Regulation is reflected in the contracts concluded by the Romanian ISPs. Further details on this action are provided in Chapter 2.3 below.

2.1 Commercial practices

In the reference period, ANCOM continued to monitor the commercial practices carried on the Romanian telecommunication market. Regarding zero-rating practices there were no notable differences from the previous period; the main services identified were:

- music and video streaming;
- social media;
- instant messaging (including voice and video);
- email;
- maps;
- cloud services;
- applications used for cost control, top-up credit, add/remove (extra)options.

From publicly available information on IPSs' websites and from the information the ISPs made available in response to the information requests submitted by ANCOM, the following practices were identified:

• Upon concluding a new contract or renewing the existing one for a period of 12 or 24 months, Telekom Romania Mobile Communications S.A. (Telekom Mobile) offers as a bonus unlimited access to internet at speeds up to 1.5 Mbps for video-streaming and up to 150 Mbps for any other content. Thus, the quality of video content is limited to a maximum of 480p. No commercial agreements have been concluded between the ISPs and the CAPs. Customers can easily activate or deactivate the bonus (in this case the tariff plan becomes a classic data-capped plan) as many times as they want during the contractual period. If the bonus is activated, all data traffic is free-of-charge both at national level as well as when roaming in the EEA (subject to regulated FUP), both directly via the mobile device and via *tethering*.

• Vodafone Romania S.A. offers zero-rated access to certain categories of applications. Each category (e.g. social media, video-streaming, audio-streaming, maps, email) is open. Every interested CAP can request to join the programme for free, subject to a commercial agreement and in compliance with specific conditions presented on ISP's website. The CAP should provide certain information such as IP address of the servers or media-storage in order to enable the ISP to identify the specific traffic. All zero-rated applications benefit from unlimited and free-of-charge data traffic both at national level and when roaming in the EEA (subject to regulated FUP), both directly via the mobile device and via *tethering*.

• In addition to the current market offers, for a short period of time at the beginning of the COVID-19 pandemic, a series of offers included zero-rated traffic to a series of applications and/or websites used for educational purposes.

Following an investigation which concerned the practices of Telekom Mobile, ANCOM found that this provider breached the provisions of Article 3(3) indents (1) and (3) of the Regulation (EU) 2015/2120 and decided that Telekom Romania should remove the discriminatory traffic treatment applied for video-streaming as opposed to the other traffic categories. The provider challenged ANCOM's decision in Court, asking for its suspension and annulment. In the first instance, the Bucharest Court of Appeal admitted the request to suspend the ANCOM decision until a court ruling on its annulment is pronounced. ANCOM appealed against the ruling of the Court of Appeal on the admission of the suspension request, but the appeal was rejected on 12.12.2019 by decision of the High Court of Cassation and Justice, Administrative and fiscal contentious section. The decision on the suspension has therefore become final. Regarding the case on the annulment of ANCOM President's Decision no. 669 of 08 August 2018, which was to be judged on the merits at the Bucharest Court of Appeal, Section VIII - Administrative and fiscal contentious, after several postponements, on 26.05.2021, the Court decided to annul the above-mentioned decision. ANCOM will appeal against this Court decision.

With regard to the other offers identified, given that the Regulation does not expressly prohibit the provision of zero-rating offers, ANCOM continued monitoring their evolution, as there were not sufficient indications of infringements to require intervention by the Authority during the reference period. Moreover, following the increase in the amount of data included in the existing offers, as numerous open data packages were launched on the market, the number of zerorating offers is on a downward trend.

2.2. Traffic management

In order to monitor the traffic management practices used/applied by ISPs, ANCOM has paid close attention to end-users' complaints that could be due to specific practices.

During the reference period, ANCOM was notified about 2 issues related to these practices.

• The first issue refers to some subscribers' (in the case of one network) being unable to access the filpregatit.ro platform, the complaint reading that "filpregatit domain. ro is blocked by the implicit DNS servers of that network [...]". In order to clarify the on-site situation, the respective provider carried out a series of verifications and analyses, as a result of which "no blocking was found on the filpregatit.ro domain or DNS servers in the systems" of the network [...], the provider claiming that the situation "was caused by an incorrect DNS configuration".

The tests⁸ conducted by ANCOM led to the same conclusion. Therefore, this complaint was dismissed as unfounded, as the on-site issue could be solved by reconfiguring DNS servers.

• The second issue refers to a subscriber being unable to access certain websites by means of the internet access service. The issue was solved following an update of the subscriber's profile, and the issue was no longer reported to occur.

The application of traffic management practices was also monitored through the reporting mechanism set up by the European Commission and BEREC with the support of national regulatory authorities, in order to periodically monitor the traffic in each Member State so that it can quickly respond to network capacity issues due to the COVID-19 pandemic.

In this context, in order to support the steps initiated at European level, ANCOM has implemented a mechanism for collecting information on the changes registered by the providers of electronic communications networks and services regarding the traffic data and the measures they are taking or planning to take. This mechanism implies monthly reports to be submitted by all providers of mobile electronic communications networks and services, and services and by the top 5 providers of fixed electronic communications networks and services, based on the number of connections declared in the previous year. In the event of any significant changes between the reporting periods, the providers are to communicate them to the Authority as soon as possible.

Although networks are sized to support much higher traffic than the normally registered traffic, in the unprecedented situation caused by the COVID-19 pandemic, providers have warned (in case of increased traffic to unexpectedly high values for long periods of time) about the possibility of requesting support from ANCOM, in order to be able to apply band and/or speed limitations per type of traffic, so as to ensure a minimum quality of service for users. However, during the relevant period, ANCOM did not receive such requests from providers.

Having these tools available, ANCOM will continue to monitor the way the provisions of the Regulation are applied.

⁸ Using mxtoolbox.com and interrogations by means of dig

2.3. Transparency in the contracts concluded with the end-users

During the reference period, ANCOM continued to analyse the contracts concluded by the ISPs with the end-users. This analysis was carried out both following subscribers' complaints, and as part of ANCOM's annual campaign, targeted at approximately 30 ISPs providing fixed internet access services. According to the Authority's practice, regarding the transparency of contracts concluded between providers and end users, ANCOM's annual control plan targets a set of approximately 30 providers, which vary every year, whose contracts are verified from the perspective of compliance with Article 4(1)(a)-(e) of the Regulation.

Regarding the complaints received from users and the respective handling procedure, further details are available in Chapter 2.

Concerning the campaign launched, it targeted fixed ISPs that had concluded contracts with end-users. Having analysed some of the contracts during the campaign, ANCOM found that most of the information on speeds and the speed measuring procedure was not included in those contracts. Moreover, the remedies available to consumers in the event of a significant, permanent or recurring discrepancy between the actual performance of the Internet access service in terms of speed or other quality of service parameters and the performance indicated in the contract between an end-user and the ISP were only partially provided in the contracts checked by ANCOM.

The control campaign ended with the imposition of remedial measures in respect of the assessed breaches. The scrutinized providers were obliged to amend the provisions of the enduser standard contract for the provision of fixed internet access services. Therefore, the contractual provisions regarding the speeds that a user can benefit from under the contract concluded with the respective ISP have been improved and completed. Furthermore, the procedure for measuring the quality of the internet access service that a consumer can follow in order to benefit from the remedies provided by the national legislation (compensation or termination of the contract on the provision of internet access services) has been either introduced or modified, as applicable and ANCOM's Guidelines were most of the times taken into account when establishing this procedure. Moreover, where appropriate, the remedies available to consumers in the event of significant, permanent, or recurring differences between the actual performance of the internet access service in terms of speed or other QoS parameters and the performance indicated by the ISP in the contract were further detailed or included in the relevant contracts. ANCOM noted that, when drafting or amending the new contractual clauses, the ISPs considered most of the provisions of ANCOM Guidelines on the implementation of the requirements regarding the contracts' comprising information on the internet access speeds through fixed and mobile networks, although the Guidelines are not compulsory and the non- implementation of its provisions is not sanctioned by the Authority.

3. Transparency measures for ensuring open internet access

The obligation to ensure transparency regarding the quality of the internet access service r laid down by Article 4(2) of the Regulation is detailed in the secondary legislation laid down by ANCOM, i.e. ANCOM President's Decision no. 158/2015, as well as ANCOM President's Decision no. 1112/2017. ANCOM President's Decision no. 158/2015 sets the steps required for making available to the public the information regarding the quality of the internet access service. ANCOM President's Decision no. 1112/2017 sets the (technical and administrative) quality indicators for the provision of the internet access service that are relevant from the end-users' point of view, definitions and measuring methods for this set of indicators, and imposes on the providers the obligation to publish the quality parameters and to include them in the contracts concluded with the end-users. The Decision does not impose target-values for these parameters. The committed value of the parameters (quality level) is established by the end-users, irrespective of the payment method (prepaid or post-paid).

The *administrative quality indicators* established under the Decision no. 1112/2017 are the following:

- term for providing the internet access service;
- frequency of the end-user complaints;
- fault report rate;
- frequency of bill correctness complaints;
- fault repair time;
- end-user complaint (other than fault-related) resolution time.

The *technical quality indicators* established through the above-mentioned decision are the following:

- data transmission speed
- packet transmission delay
- jitter and
- packet loss rate.

Within the Decision, ANCOM defined the technical quality parameters provided in the Regulation, without interfering with other issues regarding these parameters. The parameters were defined in broad terms, precisely for not hindering/restricting the providers. Thus, ANCOM aims to closely monitor the implementation of the Regulation's provisions by the providers and to step-in subsequently, as appropriate. Moreover, the decision also establishes the quality parameters measured by the end-users, so that they can monitor and assess the quality of the contracted service.

In order to apply the provisions of Article 4(1)(d) of Regulation (EU) 2015/2120 as uniformly as possible, ANCOM developed and published the Guidelines on the implementation of the requirements regarding the inclusion in the contracts of information on the speeds of fixed and mobile internet access services, on which information is also provided in Chapter 1.1 of this Report. The ANCOM Guidelines are intended for the electronic communications network and service providers and bring clarifications and good practice examples concerning the legal

requirements the providers must implement as regards the inclusion in the contracts of the information on the internet access speeds through fixed and mobile networks, such as:

- how the speed values should be expressed;
- factors that may influence reaching certain speeds, so that users understand the issues that may affect the results of a measurement;
- the conditions in which measurements should be performed by the users to obtain the internet access speeds from the contract, for example conditions related to the terminal from which the measurements are performed;
- aspects to be included in contracts in order to identify any significant discrepancy, continuous or regularly recurring,, between the actual performance of the service and that indicated in the contract, for example the number of days for performing measurements, the number of measurements to be performed per day and the corresponding time intervals;
- how a user can submit a complaint regarding the non-compliance with the contractual clauses, in order to be able to benefit from remedies.

3.1. Data transmission speed

According to the provisions of ANCOM President's Decision no. 1112/2017, **data transmission speed** is the data transmission rate, measured in Megabits/second (Mbps), achieved separately for the transmission of the test files downstream, respectively upstream, between the enduser's terminal equipment and a test server.

The data transfer speed is specified based on the transport layer protocol payload.

For **internet access services on fixed networks**, the following parameters have been defined:

- *Minimum speed* the lowest data transmission rate that an end-user can experience in accessing the service, according to the contractual or general conditions, as appropriate. In principle, the actual speed, experienced by the end-users, should not be lower than the minimum speed, except in cases of service interruption.
- *Normally available speed* the data transmission rate that an end-user can experience most of the time when accessing the service, during a specified period.
- *Maximum speed* the data transmission rate that an end-user can experience at least once during a specified period.
- Advertised speed the data transmission rate that a provider uses in advertising materials, in promoting commercial offers. The advertised speed should not exceed the maximum speed.

For **internet access services on mobile networks**, the following parameters have been defined:

 Estimated maximum speed – the data transmission rate that an end-user can experience in realistic usage conditions. This speed will be specified separately, for different network technologies. • *Advertised speed* – the data transmission rate that a provider uses in advertising materials, in promoting commercial offers. The advertised speed should not exceed the estimated maximum speed.

In order to ensure the possibility to assess the quality of the service provided, the technical quality parameters will be accompanied by the following information – according to the provisions of ANCOM President's Decision no. 1112/2017:

- a description of the conditions under which the minimum speed, the normally available speed and the maximum speed could be achieved, for internet access services on fixed networks;
- a description of the methodology used to ascertain the estimated maximum speed and a description of factors influencing the achievement of the estimated maximum speed, for internet access services on mobile networks.

The data transmission speed measured by ANCOM's application – *Netograf* – is calculated in real time for internet access services, for both fixed and mobile networks, dividing the dimension of the test file by the transfer time required for error-free transmission. The results will be presented to the user after the measurement has been completed. Measurements are performed at the edge of the network by means of which the internet access services are provided (e.g. at the end-users' premises, for fixed access, or via the radio access network, for mobile access). The test server is located outside the network that provides the internet access service, at the national internet exchange point. The measurement uses multiple TCP connections for saturating the measured path.

The quality of an internet access service must not be assessed based exclusively on data transmission speed. Packet transmission delay, jitter and packet loss rate are the parameters that, besides data transmission speed, may create a thorough and accurate image of the internet access service quality. ANCOM did not impose on the providers the obligation to publish the three quality parameters and to include them in the contracts concluded with the end-users. Nevertheless, ANCOM President's Decision no. 1112/2017 defines these parameters and ANCOM's application will measure them. Thus, the end-users can receive relevant, complete, comparable and easily accessible information on the quality of the internet access services.

3.2. The certified monitoring mechanism – Netograf

In 2014, ANCOM launched Netograf.ro, an online application where internet access users can measure service quality as regards technical parameters. In 2019, ANCOM extended the Netograf platform, making publicly available a set of applications (a web app, as well as desktop and mobile apps) through which users of internet access services can test, monitor and assess the service performance ensured by the providers and its evolution over time, respectively the improving or the degrading quality of the internet access service offered. The application is available on <u>www.netograf.ro</u>.

During 2020, the Netograf platform was improved by upgrading the web app, the desktop and mobile apps (for Android and iOS). Moreover, in order to enhance the platform functionalities, the methodology for finding the location of the terminal used in the measurements has been improved. The platform allows the test location to be identified, where the user enables the

location finding option, thus providing valuable information to ANCOM for its statistics based on location, as well as for uploading the Netograf users' test results onto the corresponding map.

Using this application, internet access service users can measure parameters such as data transfer speed, delay, jitter and packet loss rate, and they can compare the measured values with the nominal values of the respective parameters indicated by the providers in the contract.

Measuring the quality parameters of the internet access services does not require creating a user account. However, if the user wishes to create an account, Netograf enables features such as the possibility to display graphs and tables with the historical values of the completed tests, and to schedule tests at regular time intervals, during one or several days. Netograf tests the quality of the connection between the end-user's terminal equipment and a test server connected to two national public interexchange internet nodes. The measurements indicate a value of the parameters close to the actual user experience in accessing the internet, as the measured path includes the provider's network as well as, in the case of very small providers, other networks interconnected with their own network. On Netograf, the users of internet access services have access to relevant, detailed, and easy to reach information on the quality of the contracted services, in terms of technical parameters, based on which they can make informed decisions. Netograf is not only an information tool for end-users, raising awareness on the quality of services as a key component in a competitive market, but it is also a measuring instrument by which end-users are enabled to detect any discrepancy between the real/measured performance of the service and the performance indicated by providers in the contracts.

This issue is detailed in ANCOM's Guidelines on the implementation of the requirements regarding the inclusion in the contract of information on the access speeds on fixed and mobile networks.

Thus, for the <u>fixed internet access service</u>, ANCOM established, through the Guidelines, the conditions that need to be met and the procedure that a user must follow in order to ascertain **significant discrepancies** and, on the other hand, **discrepancies that are permanently or regularly recurring.**

In order to ascertain **significant discrepancies**, the user must perform, under certain conditions, at least 6 measurements within 24 hours, of which at least one must be taken between 23:00 and 07:00. Measurements must be carried out at intervals of at least one hour apart. A discrepancy is considered significant if it meets at least one of the following conditions:

- the minimum speed is not achieved for at least two measurements;
- at least half of the measurements performed by the user do not exceed 50% of the normally available speed indicated in the contract.

In order to ascertain **discrepancies that are continuous or regularly recurring** between the contractual speeds and the actual performance of the internet access service, the user is required to perform measurements, under certain conditions, for at least 5 days (out of which at least one should be a weekend day), during a maximum of 30 consecutive days, performing a minimum of 6 measurements per day, out of which at least one daily measurement should be carried out between 23:00 and 07:00. Measurements must be made at least one hour apart. A

discrepancy is considered continuous or regularly recurring if it meets at least one of the following conditions:

- the minimum speed is not achieved for at least two measurements;
- at least half of the measurements do not reach the normally available speed;
- no measurements reach the maximum speed.

For the <u>mobile internet access service</u>, ANCOM has established the procedure that a user must follow in order to ascertain the **discrepancies that are significant**, **permanent**, **or regularly recurring** between the contractual speeds and the actual performance of the internet access service. Thus, the user is required to perform measurements, under certain conditions, for at least 5 days (out of which at least one should be a weekend day), within a timeframe of 30 consecutive days, performing a minimum of 6 measurements per day, out of which at least one daily measurement should be performed between 23:00 and 07:00. Measurements must be made at least one hour apart. A discrepancy is considered to be significant, permanent, or regularly recurring if at least half of the measurements performed are below certain values, stipulated by providers in the contracts.

Moreover, users will have at their disposal statistics with the values of the technical quality parameters, obtained after performing tests by other users, in a determined period of time. In the Technical Parameters section, the average results of the measurements are presented based on the tests performed by the users through the Netograf applications. At the same time, the test results can be viewed graphically on the map of Romania. These statistics are for information purposes only and do not constitute a guarantee that a user's connection will always ensure a certain quality level.

According to ANCOM President's Decision no. 1112/2017 on setting quality indicators for the provision of the internet access service and publishing the corresponding parameters, ISPs are required not to charge, limit or block the end-users' data traffic from and to Netograf.ro. The accuracy of the test results can be influenced by several factors. Thus, a series of recommendations are available to end-users, for them to obtain most accurate results (https://www.netograf.ro/#/about).

3.3. Means of ensuring the transparency of the information regarding the quality of the internet access service

ANCOM President's Decision no. 1112/2017 also introduced specific obligations on the providers of electronic communications services (hereinafter *ECS providers*) in respect of the means of ensuring transparency regarding the quality of the internet access service provided, by amending accordingly the provisions of ANCOM President's Decision no. 158/2015 establishing various transparency obligations for the ECS providers, regarding the tariffs charged, the conditions of use of the services, as well as the quality of the service, which were considered relevant for the end-user to make an informed decision. Thus, based on ANCOM President's Decision no. 158/2015, with the subsequent amendments, the providers are required to publish on their websites, in the content of the first description of each tariff plan containing an internet access service, the values of each type of speed established by the Regulation.

Furthermore, based on the provisions of this decision, the providers also have the obligation to communicate to end-users, before the conclusion of an internet access service contract, information on the values for each type of speed established by the Regulation. This obligation applies to contracts concluded in the presence of the two parties in the providers' shops.

The providers' website must also display information on the speeds measurement procedure that allows a consumer to identify any significant discrepancy, continuous or regularly recurring, between the actual performance of the internet access service regarding speed or other quality of service parameters, and the performance indicated by the provider of internet access services in the contract. The providers also have to publish on their website the remedies available to the consumer in accordance with the national law, if such discrepancies are found by using the certified quality measurement mechanism.

4. Quality of the internet access service

Annually, ANCOM prepares a report on the quality of the internet access service, based on the measurements performed by users on the Netograf platform. The most recent report illustrates the evolution of the values of internet access service quality parameters in 2020 and presents comparative statistics on service quality, and analyses on the evolution thereof. In 2020, the statistics were based on the analysis of 322,777 valid tests, about 17% more than the number of tests carried out during 2019, when approximately 275,969 tests were performed. 54.4% of all the valid tests were performed by fixed connections and 45.6% were performed by mobile connections.

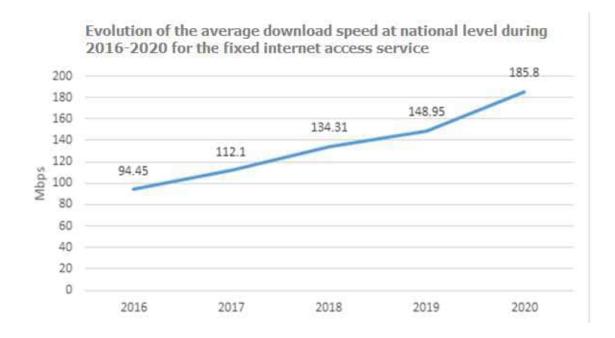
Given that fixed and, respectively, mobile access technologies have different characteristics from the perspective of service provision, thus yielding substantially different values of the quality parameters, ANCOM analysed separately the performance of fixed network ISPs and that of mobile network ISPs.

4.1. Quality of the fixed internet access service

Tests performed by users on Netograf in 2020 show that the national average download speed for fixed internet access services was 185.80 Mbps, whereas the average upload speed was 111.4 Mbps.

Compared to the previous year, in 2020 there was an increase in the download speed nationwide by about 25% (the average speed in 2019 being 148.95 Mbps). The upload speed also registered a slight increase, by 0.6% (the average speed in 2019 being 110.73 Mbps), for fixed network connections.

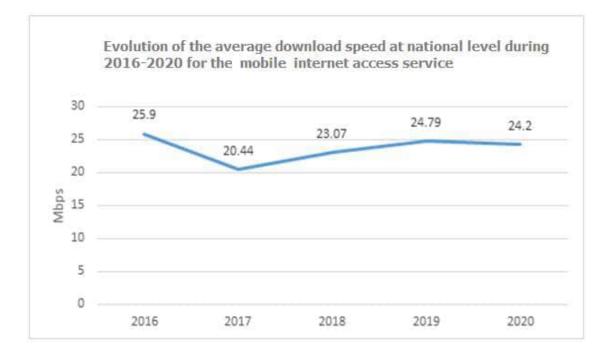
The evolution of the average download speed at national level during 2016 - 2020, for fixed internet access services, is presented in the figure below.



4.2. Quality of the mobile internet access service

According to the results of the tests performed on the Netograf platform, in 2020 Romanian users experienced average download speeds of 24.20 Mbps for the mobile internet access service, at national level. The average upload speed nationwide was 10.20 Mbps for the mobile internet access service. Compared to the previous year, in 2020 the average download speed at national level decreased by 2.4%, respectively the average upload speed by 19% (these parameters registered values of 24.79 Mbps, respectively 12.63 Mbps in 2019).

The evolution of the average download speed for mobile internet access services, at national level, during 2016 – 2020, is presented in the figure below.



The data recorded through the Netograf platform regarding data transfer speeds are correlated with the general trend resulting from the providers' reporting of statistical data, corresponding to the transfer speeds declared by them. Thus, the number of ultra-fast fixed connections (ensuring at least 100 Mbps) increased by 16% compared to the previous year, the share of very high-speed connections reaching 80% at the end of 2020. In terms of access connections to mobile internet, the number of 4G connections is growing annually by 13%, so that in 2020 they will have a majority share of 66% of all mobile internet connections.

4.3. Internet access services during the COVID-19 pandemic

In the context of the COVID-19 pandemic, a series of measures were taken in our country, involving an additional use of electronic communications networks and services. ANCOM initially sent a notice to the most important telephone and internet operators warning them to prepare for taking the necessary and possible measures with a view to avoiding and solving the occurring cases of congestion or interruption of voice and/or data traffic. ANCOM's analysis of the data transmitted by the operators showed that some of them expected traffic increases by over 50% compared to normal situations.

To ensure the continuity of service provision in the event of an increase in data traffic, the operators monitored the load and the level of traffic on their own network, as well as other quality parameters of the network. The operators' risk management actions identified a number of possible threats and risks, which related at least to the security of services and networks, the supply of commercial equipment necessary for electronic communications services, and they carried out actions to prevent or reduce these risks.

The increase in traffic was due to the increasingly intense implementation of teleworking, elearning for school and university students, and the significant take-up of online entertainment. Under these circumstances, the most widely used electronic communications services in these cases – mobile voice services and fixed and mobile internet access services – were expected to see a significant increase in traffic, while the traffic that normally runs within a private network (institution, economic agent) was to be carried out on the public network. Thus, after a sharp increase at the beginning of the pandemic period, voice and data traffic stabilized rapidly at higher values than before the pandemic, the most significant increases being recorded in the case of fixed internet access services.

Providers were required to take all appropriate security measures to manage the risks to the security of electronic communications networks and services so as to ensure a level of security appropriate to the identified risk and to prevent or minimize the impact of security incidents on interconnected users and networks. Moreover, in order to ensure service continuity in the event of an increase in data traffic, providers took steps to more effectively monitor the available network capacity and intervene where necessary, modernize network equipment, and simplify and streamline procurement. They also took measures to optimize the use of technical resources. Consequently, Romanian networks were able to effectively support and manage the demand growth, for the users to enjoy good connectivity.

5. Transparent, simple and efficient procedures for handling end-user complaints

According to the secondary legislation issued by ANCOM⁹, ISPs must publish on their website and also to hand in to end-users, upon the contract conclusion, a procedure that details the steps an end-user has to follow in order to submit a complaint related to the provision of electronic communication services. This is a general procedure that also applies to the complaints related to the application of the Regulation.

No changes occurred during the reference period as regards the procedure the end-users can follow in order to complain about issues related to the application of the Regulation's provisions.

Concerning the minimum required content of the procedure, in ANCOM President's Decision no. 158/2015, the Authority has established that internet access service providers should include in the procedure and thus make available, in a transparent manner, the following information:

- the means by which an end-user can submit a complaint;
- the name, address and the working program of the department in charge of solving the complaints;
- the maximum timeframe for submitting the complaint, if applicable;
- the maximum timeframe for solving the complaint;
- the maximum timeframe for remedying the disturbance;
- the compensations applicable if the provider exceeds the timeframe for solving the complaint and for remedying the disturbance;
- the timeframe and means by which the provider informs the end-user on the outcome of his/her complaint;
- a specification of the fact that the end-user can address a complaint to ANCOM or can use other Alternative Dispute Resolution procedure if he/she is not satisfied with the way in which his/her complaint has been solved by the provider.

All electronic communications service providers have implemented this procedure, as it is mandatory, and may trigger sanctions, if not implemented according to the conditions set by ANCOM President's Decision no. 158/2015.

6. Penalties

Regarding the sanctions applicable in case of non-compliance with the provisions of the Regulation, no changes have occurred in the legal framework, from the previous reporting period. Thus, according to the provisions of Article 142 indent 55 of Government Emergency Ordinance no. 111/2011, the non-compliance by the providers with the obligations deriving from the regulations of the European Union in the field of electronic communications, where the competence of monitoring and verification of the compliance with these obligations belongs to the national regulatory authority, is a contravention that can be sanctioned by ANCOM.

⁹ ANCOM President's Decision no. 158/2015, whose text in Romanian is available at the following link: <u>http://www.ancom.org.ro/uploads/forms_files/decizia_2015_1581428306401.pdf</u>

Therefore, ANCOM can sanction any breach of the provisions of the Regulation, with the exceptions mentioned above, related to the competence of the national ANPC and the national ANSPDCP, as mentioned in section 1.2. above.

Government Emergency Ordinance no. 111/2011 also includes the penalties applicable in case of discovering the contraventions mentioned in Article 142 indent 55 therein, as a result of infringements of the provisions of Articles 3, 4, and 5 of the Regulation.

There were no changes from the previous reporting period, the maximum thresholds of the fine that can be applied to the providers with a turnover above RON 3,000,000 remained up to 5% of the turnover, respectively up to 10% of the turnover in the case of repeated breaches.

Thus, according to Article 143 of Government Emergency Ordinance no. 111/2011, a breach of the obligations laid down in the Regulation constitutes a contravention that can be sanctioned by ANCOM as follows:

- with fines ranging from RON 5,000 up to RON 60,000 and, in case of repeated breach, up to RON 100,000;
- for the providers with an annual turnover of more than RON 3,000,000, with fines of up to 5% of the annual turnover or up to 10% of the turnover in case of repeated breach.

Such breaches may also be sanctioned by warning, according to Government Ordinance no. 2/2001 on the legal framework for contraventions, with the subsequent amendments and completions.

The contravention is assessed, and appropriate penalties are applied by decision of the ANCOM President. The decision is an enforceable title and can be challenged in administrative contentious, at the Bucharest Court of Appeal, within 30 days from the time it was communicated.

According to the provisions of Article 149(1)(a) of Government Emergency Ordinance no. 111/2011, where an infringement has been found, ANCOM may also require the cessation of the infringement either immediately or within a reasonable timeframe, as well as any other measures necessary to ensure the cessation of the infringement and the remedy of the respective situation. The measures shall be proper and proportionate to the committed breach and shall provide a term within which the provider must comply with them. The non-observance of the measures ordered by ANCOM is, in its turn, according to the provisions of art. 151 of the Government Emergency Ordinance no. 111/2011, sanctionable with an administrative fine of up to RON 30,000 per day of delay.

National Authority for Management and Regulation in Communications 2 Delea Nouă street, 3rd district, 030925 Bucharest, Romania phone: +40 372 845 400; fax: +40 372 845 402; e-mail: ancom@ancom.ro www.ancom.ro www.portabilitate.ro www.veritel.ro www.netograf.ro