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Guide to registering as a TSP

Explanations on completing the form

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Summary

This document explains how to complete the form for registering telecommunications services and the resulting publication of the data.

Annex 1 provides general information on the registration and publication process by OFCOM regarding the registered services.

Please refer to the separate fact sheet on registration as a TSP for the legal basis for telecommunications services and their registration by OFCOM.

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Preface

The numbering in this part of the guide corresponds to the order of the information in the online form and the numbering of the information in the PDF form for registration as a TSP.

If possible, use the abbreviations in accordance with the annex to this document for technical information.

1 Addresses and contact persons

For each registered telecommunications service provider, OFCOM requires the following addresses and contact information:

- Main address
- Contact person and address for correspondence
- Contact person for telecommunications statistics

Please enter the corresponding addresses in the form, complying with the mandatory information in each case. When registering online, all addresses and contact persons should be created first; afterwards these can be assigned to the above-mentioned roles. The online portal refers to these contact addresses as 'business partners'.

When registering online, the organisation and address of the person responsible for administration must also be given.

1.1 Main address - Holder

For registration as a telecommunications service provider, OFCOM records the main address or registered address of the telecommunications service provider as in the commercial register. This address must correspond to the address specified in the service relationship with customers as a contracting party.

Within a group with several registered companies and locations, any different addresses and providers used as a contracting party in service contracts must be registered separately.

Under the main address, enter non-personal telephone and email contact data which are intended for the general public and which can be published on OFCOM's websites.

For registered providers, the main address is published by OFCOM.

1.2 Online administrator

When registering online, enter the name of the organisation acting as administrator for the TSP's registration. An organisation can either act as its own administrator or mandate a separate organisation for administration.

The administrator's details are not published.

1.3 Correspondence address and contact

All registered TSPs must designate a correspondence address in Switzerland to which, in particular, communications, writs and official decisions can be delivered with legal force. The correspondence address need not be part of the company to be registered; in particular, it may designate a legal representation or a service provider for mailboxes.

The correspondence address is denoted on the basis of a UID. For more information, visit the www.uid.admin.ch website.

If the correspondence address differs from the main address at the time of online registration, it is supplemented by the delivery information c/o, for "care of", specifying the title of the main address.

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The PDF form contains the "care of (c/o)" field. In this field, the name of the company (or the individual) authorised in law to receive the correspondence for your company in Switzerland must be entered.

The correspondence address is published by OFCOM, for registered providers.

Please enter a contact person for correspondence who can also be reached by phone and email for enquiries about correspondence. The contact person information is not published by OFCOM.

1.4 Contact for telecommunications statistics

In accordance with Article 59 para. 2 TCA and Articles 97ff TSO, all telecommunications service providers are required to provide information relating to the production of official telecommunications statistics. The statistics are published at www.bakom.admin.ch. The named person should also be able to name those business partners with whom resources under national administration (addressing resources and/or frequencies subject to licensing) are shared for the provision of telecommunications services.

Please enter the contact person and their address for answers to telecommunications statistics questions, including telephone number and email. Letters will be sent to the correspondence postal address.

The contact person and address details are not published.

2 Capacity as telecommunications service provider and use of resources

The form asks three test questions which are essential for registration and publication as a registered TSP. If there is still uncertainty when answering any of the questions, please consult the fact sheet¹ on registering as a TSP. If there are doubts, you can also communicate them in the comment fields for individual services or the service offering as a whole for further processing. The comments will be taken into account in the assessment for clarification.

2.1 Telecommunications service provider

By making the statement, you confirm that you offer at least one telecommunication service as defined in the TCA. The definition of a telecommunication service is explained in detail in the above-mentioned act sheet.

Examples:

If you provide transmission of information for your customers and assume responsibility for this in respect to your customers, question 1 must be answered in the affirmative (therefore mark with a cross).

If you are a reseller who markets telecommunications services on behalf of a third party (a registered telecommunications service provider) and if the latter (not you yourself) accepts responsibility for the services provided **in accordance with a contract with end customers**, question 1 must be answered in the negative (therefore do not mark with a cross).

On the other hand, resellers which offer telecommunications services in their own name are considered to be telecommunications service providers. For a correct assessment, it is therefore important to know whether a reseller provides the corresponding

¹ www.bakom.admin.ch/bakom/en/homepage/telecommunication/telecommunication-services-providers/registration-and-publication-as-a-tsp.html

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telecommunications services in its own name and therefore bears responsibility for them or whether the original provider assumes responsibility to the end users.

If switching and/or transmission equipment is operated exclusively for one's own use, the services provided do not fall within the scope of the TCA. This is the case if the electromagnetic sending and receiving of information provided for third parties is used exclusively to make contact with the transmission provider itself or to make use of its services (information services, sales services, control of equipment, evaluation of signals and alarms).

If you transmit third-party radio and television programmes to your customers, question 1 must be answered in the affirmative. This applies even if the radio and television programmes are transmitted via the internet.

If you exclusively transmit your own radio or television programmes, however, question 1 must be answered in the negative, as this is not transmission for third parties.

2.2 Use of radio frequencies

By making the statement you confirm that you are using a radio frequency licensed by OFCOM for the provision of telecommunications services. It does not matter whether you, as a licensee, operate the radio network equipment yourself or only use corresponding radio links as a provider of telecommunication services. In the case of such indirect use of frequencies by means of transmission capacities, it is essential that a service contract for the use of transmission capacities exists. Use of a radio transmission as an OTT provider is not to be taken into account in this context.

2.3 Use of addressing resources

By making the statement you confirm that you are using addressing resources managed by OFCOM under national administration for the provision of telecommunications services. These are primarily telephone numbers for switching and termination of telecommunications calls. In addition, other addressing resources may also be used for telecommunications services originally allocated by OFCOM or acquired directly from OFCOM. In case of uncertainty, please check the above-mentioned fact sheet.

The use of IP addresses for the transmission of data packets on the internet and the FTTH operator numbers allocated by OFCOM do not constitute addressing resources under national administration. The use of domain names ending in *.ch* or *.swiss* is also irrelevant for this question.

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3 Catalogue of services

When offered telecommunications services are registered, telecommunications network infrastructures and the services based on them are considered separately.

For each technology, you must determine the **period** of the offering in question. The date of termination may be left open until this is known. You can also add one **comment (200 characters)** to explain and exchange information with the administrative official. During the selected period, the service in question will be published by OFCOM. Detailed information, the date or the comment will not be published.

For the infrastructure technologies (paragraphs 1 and 2), we only consider the parts of the communication networks in the last mile, or only those network technologies offered to a customer via an interface. Consequently, a pure OTT provider does not provide any information here.

In the detailed information, we distinguish between the operation of one's **own infrastructure** and the **wholesale acquisition** from other TSPs as a virtual network provider for offering interfaces in the last mile.

In the offering of interfaces in the last mile, we distinguish between **wholesale provision** to other TSPs, including the right of use to act as a virtual network provider and to use the offering **for end users** to use this for their own purposes.

Please note the obligation to publish the interfaces in the case of offerings for end customers.²

In the case of higher-level telecommunications services (paragraphs 3 to 6), we consider services independently of the network. The statement as to whether one's **own infrastructure**, a **virtual network** or an **OTT**-based service exists relates to the service offering from the customer's viewpoint as well as the systems and equipment operated for the customer. The details are explained in greater detail in the corresponding sub-sections.

The explanation of the possible information to be provided can be found in the following sub-sections. The following digits in third and fourth position (e.g. 3.1.2 Coaxial cable) correspond to the codes or digits in the sequence of technologies and services (e.g. 1.2 Coaxial cable).

3.1 Fixed network infrastructures

For the following technologies, only offerings in the access network of a TSP which offer a subscriber-connection using lines **in Switzerland** are considered.

3.1.1 Twisted pair

Lines using parallel twisted pairs, usually copper wire, the basis of the former analogue telephone network with possible uses of xDSL, G.Fast and related transmission standards.

3.1.2 Coaxial cable

Lines using coaxial conductors, usually the basis of the former analogue cable television network expanded as HFC and possible uses of DVB-C, DOCSIS and related transmission standards.

3.1.3 Fibre optic cable

Lines using optical fibre which establish a network termination point for the end customer, usually as FTTB or FTTH.

² TAV1.4 Interfaces of telecommunications networks and services

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3.2 Radio network infrastructures

For the following technologies, only offerings in the access network of a TSP which offer a subscriber-connection via a radio interface **in Switzerland** are considered.

3.2.1 Radio broadcasting networks

Networks using broadcasting without the requirement of a return channel for the user at the switching level or registration of a subscriber on the network (e.g. FM, DAB).

3.2.2 Universal mobile networks

Radio cell-based networks with roaming for the public mobile network according to international GSMA and 3GPP standards or similar (e.g. GSM, UMTS, 4G, 5G networks).

3.2.3 Specific mobile networks

Radio cell-based networks with roaming for specific user groups which do not constitute universal mobile networks in the public sector, in particular PMR/PAMR networks.

3.2.4 Local RAN

Radio cell-based networks without roaming, including mesh-up networks without national extension, for the development of small-scale mobile or stationary network termination points. Usually in the form of WLAN hotspots across several properties or on local public transport.

3.2.5 Microwave links

Microwave links between stationary terrestrial antenna locations.

3.2.6 Satellite

Radio links which use satellite-based information transmission on the access network on an uplink or downlink.

3.3 Public telephone service

In the case of public telephone service categories, only those services with voice transmissions which are carried on public global telephone network landlines and mobile radio are to be entered. Only service offerings which use the telephone numbers under Switzerland's national administration for this are taken into account. Offerings based on telephone numbers from other nations are not registered.

If you provide public telephone services you are obliged to ensure access to emergency services³.

3.3.1 Subscriber connection

Confirm this service when you assign a telephone number according to E.164 to a customer for use in voice telephony.

Confirm your **own infrastructure** if you offer the subscriber connection via your own technical infrastructure within the customer premises.

Confirm a **virtual network** offer if you offer a customer with the phone number a network connection which you obtain from another provider.

³ TAR 1.3 Emergency call requirement

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Confirm **OTT** service if a telephone number can be used independently of the actual network connection. This is also referred to as nomadic use, which is usually made possible by using a SIP-based service via any internet connection.

Please delimit the offering from previously mentioned infrastructures using the comments field if necessary.

3.3.2 Hosting

Confirm this service if you terminate an individual number or short number (0800, 084x, 090x, etc.) or an E.164 based number for a customer solely on equipment (automated service) or enable outgoing transmissions which are located neither on the customer's premises nor on mobile terminals used by him.

This service usually includes all call centre offerings with manual and automated call response (IVR).

Confirm your **own infrastructure** if you are operating the call termination equipment yourself.

Confirm a **virtual network** offering if you as a reseller do not operate the call termination equipment yourself.

Confirm **OTT** service if a customer is given remote access to the number hosted for him which allows him to listen to calls, or if transfer of incoming calls to other telephone numbers when needed is enabled. Also confirm this for offerings where you provide customers with a collective number for two-step dialling procedures.

Please explain the hosting services offered in keywords in the comments field.

3.3.3 Transmission of the emergency call address

Confirm this service if you send the address data for your customers with a subscriber connection to the operator of the emergency call database.

Confirm your **own infrastructure** if you have a direct interface with the operator of the emergency call database for transmission of the address data.

Confirm a **virtual network** offering if you task a service provider to transmit the address data. This is usually the provider of comprehensive intermediate services for the telephone connection.

Confirm **OTT** service if an emergency call organisation can only retrieve the necessary addresses on one of your systems directly by means of standardised processes.

3.3.4 Emergency call routing

Confirm this service if you provide the outgoing emergency calls for your customers with a subscriber connection on the fixed network in accordance with the requirements for routing to the mandated emergency call centre.

Confirm your **own infrastructure** if you operate your own systems for correct routing.

Confirm a **virtual network** offering if you task another service provider with correct routing. This is usually the provider of intermediate services for the subscriber connection.

Confirm **OTT** service if routing is not based on the network side on the physical connection but is implemented on the basis of a routing table stored in a customer's telephone equipment.

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3.3.5 Emergency call location server

Confirm this service if you provide outgoing emergency calls to your subscriber connection customers using server-based location identification for the emergency services, in accordance with the ETSI standard (ES 203 178) and similar.

Confirm your **own infrastructure** if you offer location identification on your own server infrastructure on your own network.

Confirm a **virtual network** offering if you offer location identification on a third-party server infrastructure as part of the managed network infrastructure. This is usually the provider of intermediate services for the subscriber connection.

Confirm **OTT** service if location identification is not carried out within the framework of controlled network infrastructures but by means of a provider of globally routed network connections (cloud service) according to the best-effort principle.

3.4 Media services

A media telecommunications service exists when transmission of information is offered (from a broadcaster independent of one's own company to the media recipient or customer). In addition to the usual programmes which are redistributed within the framework of copyright fees, in the case of licensed media content these are offerings which exclude an editorial change or a recompilation of the content as a programme.

3.4.1 TV programmes

Confirm this service if you offer television programmes for end users (pay TV, free TV) within the meaning of the RTVA which you yourself do not create as a broadcaster.

Confirm your **own infrastructure** if you use your own infrastructure (head-end) for the preparation of the programme offering and ensure the transmission by your own or leased capacities in the access network. These are usually broadcasting networks or IPTV offerings in controlled access to the network.

Confirm a **virtual network** offer if you do not have any influence of your own on the preparation of the programme offering but in the access network you ensure transmission to the customer by means of your own or leased capacities. This usually involves the resale of pre-configured offerings under your own or third-party brands, e.g. in a brand network.

Confirm **OTT** service if you are responsible for the preparation and compilation of a programme offering which is called up by the customer in a freely chosen access network, e.g. on the internet on the basis of net neutrality in accordance with the best-effort principle.

3.4.2 Radio programmes

Confirm this service if you offer radio programmes for end users (pay or free-to-air) within the meaning of the RTVA which you yourself do not create as a broadcaster.

Confirm your **own infrastructure** if you use your own infrastructure (head-end) for the preparation of the programme offering and ensure transmission by your own or leased capacities on the connection network. These are usually broadcasting networks or IPTV offerings including radio programmes with controlled access to the network.

Confirm a **virtual network** offering if you do not exercise your own influence on the preparation of the programme offering but in the access network you ensure transmission to the customer using your own or leased capacities. This usually involves the resale of pre-configured offerings under your own or third-party brands, e.g. in a brand network.

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Confirm **OTT** service if you are responsible for the preparation and compilation of a programme offering which is called up by the customer in a freely chosen access network, e.g. on the internet on the basis of net neutrality in accordance with the best-effort principle.

3.5 General data services

The registration of general information transmission is limited to the following subcategories.

3.5.1 Internet access

Confirm this service if you assign the customer an IP address (IPv4/IPv6) and potentially route or transfer data traffic to the global internet.

Confirm your **own infrastructure** if you operate your own autonomous system for potential routing.

Confirm a **virtual network** offering if you rely on the service of a higher-level network provider and its autonomous system for potential routing and only offer sub-allocation from a quota of IP addresses.

Confirm **OTT** service if you do not bundle an allocation of an IP address with a network termination point but the allocation is implemented by means of virtual network access, for example as a VPN offering with internet routing.

3.5.2 Point to point

Confirm this service if you offer the customer data transmission between fixed network termination points. The data transfer can also be carried out via IP addresses as long as the actual service of internet access can be excluded.

Confirm your **own infrastructure** if you connect the customer at a location through your own infrastructure for the potential route in the access network.

Confirm a **virtual network** offering if you connect the customer at a location through external or leased infrastructures for the potential route in the access network.

Confirm **OTT** service if you allow the customer to access at a location for the potential end to end route via an access network of his choice, e.g. on the internet based on net neutrality in accordance with the best-effort principle. This is the case, for example, when a VPN route is established as a cloud service between defined or authenticated subscribers without line-dependent identification.

In the comments field, please explain the transmission services offered in keywords.

3.5.3 SMS/MMS

Confirm this service if you offer transmission of short messages to or from a telephone number or short number. Take into account only those services which use addressing resources under national administration in Switzerland. A telecommunications service in the case of SMS/MMS exists only if the transmission of information is offered by a sender independent of your company to the recipient or customer. For example, if you host an SMS confirmation service for a ticket agency instead of offering tickets yourself.

Confirm your **own infrastructure** if you are operating the systems necessary for processing the messages yourself.

Confirm a **virtual network** offering if you as a reseller do not operate the systems necessary for processing the messages.

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Confirm **OTT** service if a customer can send or receive an SMS/MMS via an access independent of the public telephone network. For example, by means of a portal on a website which allows corresponding messages to be created or displayed as a web page.

In the comments field, please explain the transmission services offered in keywords insofar as they differ from customary message exchange between end customers on mobile networks.

3.6 Other services

Telecommunications services which are offered using national resources and which are not already declared in the above categories are to be included in the following subcategories. Other telecommunications services without the use of corresponding resources do not need to be registered.

3.6.1 Voice transmission

Confirm this service if you offer voice transmissions outside the public telephone service that do not fall under Category 3 (chpt 3.3). Such services, using nationally managed resources, are typically available in radio networks for voice transmission which have been opened for foreign private companies, for example radio networks for large-scale events which are not used solely by the licensee.

Confirm your **own infrastructure** if you offer the subscriber-connection by means of your own technical infrastructure within the customer sphere, for example by providing cables or operating an antenna system.

Confirm a **virtual network** offering if you offer a subscriber-connection to a customer that you obtain from another provider, for example, if you yourself are not a licensee for the necessary radio frequencies and have leased the equipment.

Confirm **OTT** service if voice transmission can be used independently of an access network you provide. For example, by providing a bridge connection to an internet-routed RTSP client for a communications network.

If necessary, delimit the offering from the above-mentioned infrastructures in Categories 1 and 2 using the comments field.

3.6.2 Other services

Confirm this service if you offer telecommunications services which are not explicitly designed for voice transmission but nonetheless use a resource under national administration in the form of licensed radio frequencies or assigned addressing resources.

Confirm your **own infrastructure** if you offer the subscriber connection or the end customer service access point using your own technical infrastructure.

Confirm a **virtual network** offering if you offer the subscriber connection or the end customer service access point by means of third-party or leased technical infrastructures.

Confirm **OTT** service if you allow the customer to access at a location of his choice for the potential route on the access network, e.g. on the internet based on net neutrality in accordance with the best-effort principle.

If necessary, delimit the offering from the above-mentioned infrastructures in Categories 1 and 2 using the comments field and submit documentation (See chpt. 6 Addendum) concerning the relevant services in which the resources under national administration of Switzerland that are used are specified and the telecommunications service end to end is explained.

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4 Notifications

In order to ensure publication is complete and for verification of service offerings by OFCOM, we need further general information on the service offering. This information will be verified by OFCOM and published in the catalogue of services.

4.1 Comments

In the comments field relating to the service catalogue and notifications, you can provide general information about your service offering for processing by OFCOM (max. 2000 characters).

The comments fields provided in this form can also be amended by OFCOM officials and viewed online by you. They serve to clarify the facts if the rest of the form does not allow this. Please submit any more comprehensive documentation as an annexe.

4.2 URL of the service descriptions

Designate a URL relating to a website on which telecommunication services are advertised and explained. The URL should be sufficiently accurate so that all offered services and their descriptions are immediately available (maximum 2 clicks).

4.3 URL of the interface descriptions

Designate a URL relating to a web page on which the physical interfaces are published in accordance with technical administrative regulations TAV1.4. The URL should be sufficiently accurate so that all offered interfaces and their descriptions are immediately accessible (maximum 2 clicks).

4.4 FTTH operator numbers

Identify FTTH operator numbers which identify fibre networks for end customers in Switzerland which you have constructed or acquired and which are still in your possession.

4.5 Use of the frequency spectrum

Specify the period during which you actually use the resources based on licensed radio frequencies in Switzerland for services offered. The usage will be published during the specified period without specifying the dates.

4.6 Use of addressing resources

Specify the period in which you actually use the resources for services that are offered based on nationally managed addressing resources. The usage will be published during the specified period without specifying the dates.

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5 Wholesale provision

In order for OFCOM to understand the need for registration and publication of individual TSPs, it is necessary to specify all the business partners to whom resources managed at a national level in Switzerland are made available for the provision of telecommunications services (see chpt. 2).

In the list for wholesale provision, enter the relevant business partners with their TSP registration number (TSP ID) from OFCOM if possible. If the TSP ID is not available, please enter your business partner's UID (www.uid.admin.ch) in the comments field if it is a Swiss undertaking. In the case of foreign companies, you can enter their company name and full address abroad in the comments field.

For each business partner, select the applicable options:

- **Provision NA** if you provide numbering or addressing resources (e.g. E.164 numbers) to another TSP to enable it to provide telecommunications services.
- **Acquisition NA** if you acquire numbering or addressing resources (e.g. E.164 numbers) from another TSP to enable you provide telecommunications services.
- The **NA period** for the contractual agreements on the forwarding of numbering or addressing resources, from the beginning of the first agreement until (if known) the end of the last agreement.
- **Provision FK** if you provide transmission capacities based on Swiss radiocommunications licences to another TSP to enable it to provide telecommunications services.
- **Acquisition FK** if you acquire transmission capacities based on Swiss radiocommunications licences from another TSP to enable you to provide telecommunications services.
- The **FK period** for the contractual agreements on the forwarding of transmission capacities based on radio frequencies from the beginning of the first agreement until (if known) the end of the last agreement.

You can enter additional notes for each business partner in the comments field. Please list reference or contact persons with their email address and other details that may help us match the information to your business partner.

If you are unable to select the correct business partner when making an entry online, please provide us with the full address and the above details as an attachment at the end of the form, or email us at tp-nd@bakom.admin.ch.

6 Addendum

You can attach annexes to transmit documentation on interfaces and services. When registering online, these are limited to 5 MB in size per file. In the case of the PDF form, please list documents you want to hand in in the appropriate subchapter for this purpose and attach them as an email attachment or in printed form.

For referring to documentation as a download, please use the comments field if it differs materially from the URLs of the notifications.

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Annex 1 - Notes on the registration process

Languages

OFCOM offers registration and related necessary documents in English, French, German and Italian.

Legal basis

When registering, in order to assess whether your own services are telecommunications services, we recommend that you read the fact sheet on registration as a TSP. The fact sheet explains the essential legal basis.

The fact sheet on registration as a TSP can be obtained as a download on the OFCOM website.

A new registration is only possible when requested by OFCOM. This entails acquiring resources from OFCOM for the provision of telecommunications services or notification of a registered TSP to OFCOM in accordance with Article 3 paragraph 2 OTS.

Online registration

OFCOM recommends registration using the online form. By using an online account, you have the option of providing your details for verification and making subsequent changes at any time. The registered organisation and another organisation can be authorised for processing.

Online registration can be carried out on the OFCOM online website at www.uvek.egov.swiss using the service 'Manage TSP'. Initial registration is only possible when requested by OFCOM.

After a personal online account has been set up and an organisation has been created as an associated business partner with the main address according to chpt. 1.1, the TP-ND section can invite this organisation to register as a TSP.

When registering online, you have the possibility of checking and correcting a summary of all the information before submitting it.

Existing notifications of telecommunications services can be managed at any time by the relevant business partners.

Registration using the form

For registration without an online account, OFCOM offers a PDF form which can be completed electronically and sent via email, or in printed form by post. The form must be requested in writing.

Examination of information by OFCOM

After receiving new data for registration, OFCOM's *Networks and Services* section checks the information. We contact the contact persons specified in the dossier to clarify any outstanding questions. After clarifying all questions, OFCOM decides on the capacity as a telecommunications service provider and publishes providers who use resources managed by OFCOM for the telecommunications services they offer.

On completion of the verification, the provider concerned will receive a written notification sent to the main address provided, as well as to the possible different correspondence address in Switzerland. In the case of electronic registration, the messages are delivered via the online portal.

Publication of registered telecommunications service providers

Publication as a registered telecommunications service provider takes place in the course of the examination of the information as soon as all necessary information is available without objections.

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OFCOM publishes providers in advance where the future use of resources under national administration is adequately justified, either by allocation of resources by OFCOM or by the intended disposal of resources by providers already registered. Other registered providers are thus informed that a grant of usage rights to the newly registered provider is possible (Art. 4 para. 2 TCA).

The publication of a service ends as soon as the end time registered for the service is reached. The publication of a telecommunications service provider ends when, according to the information available, OFCOM no longer believes that the resources under national administration will be used.

Publication can also be terminated as soon as the required information ceases to be valid, is not updated and regular publication is no longer possible in accordance with the requirements of the guide and the regulations in force.

Updating of registration

All duly registered providers and thus published providers are obliged to keep the information provided for registration up-to-date.

For any existing registration of a telecommunications service provider, it is possible to amend the information via an online account. If you do not have access to an online account, please contact OFCOM's Networks and Services Section.

Alternatively, changes can also be communicated using a PDF form. You can confirm minor changes in writing by email or postal letter to the relevant officials.

Confirmation of the changes can be seen on the one hand in the published data of the respective telecommunications service providers. On the other hand, after the changes have been accepted by OFCOM, the provider concerned will receive a written notification sent to the main address provided, as well as to any different correspondence address in Switzerland. In the case of electronic registration, the messages are delivered via the online portal.

Annex 2 - Abbreviations

ATM	Asynchronous Transfer Mode
CATV	Community Antenna Television, cable television network
CSC	Carrier Selection Code
DAB	Digital Audio Broadcasting
DAB-T	Digital Audio Broadcasting – Terrestrial
DVB-C	Digital Video Broadcasting - Cable
DVB-T	Digital Video Broadcasting - Terrestrial
E.164	ITU Recommendation for numbering plan for the telephony service
ETSI	European Telecommunications Standards Institute
FTTH	Fibre to the Home
FTTx	Fibre to the x, fibre-optic networks with indeterminate point of transfer
GPRS	General Packet Radio Service
GSM	Global System for Mobile communications
HSDPA	High Speed Downlink Packet Access
IEEE	Institute of Electrical and Electronics Engineers
IETF	Internet Engineering Task Force
IP	Internet Protocol
IPTV	Internet Protocol Television
ISDN	Integrated Services Digital Network
ISP	Internet Service Provider
ITU	International Telecommunication Union
LTE	Long Term Evolution, mobile radio standard
MEF	Metro Ethernet Forum
MMS	Multimedia Messaging Service
MNC	Mobile Network Code (ITU-T E.212)
MPLS	Multiprotocol Label Switching
NSN	Network Service Number, identification feature of xDSL lines
NSPC	National Signalling Point Code
NTE	Network Termination Equipment
NTP	Network Termination Point
OTO	Optical Termination Outlet
OTT	Over The Top, network-independent services, usually via an internet connection
PDH	Plesiochronous Digital Hierarchy
POTS	Plain Old Telephone System
PSTN	Public Switched Telephone Network
RIR	Technical interface requirement for radio communication equipment
RTSP	Real Time Streaming Protocol
SDH	Synchronous Digital Hierarchy
SIP	Session Initiation Protocol (e.g. for set-up and control of telephony via the internet)
SIP-Credentials	Session Initiation Protocol, log-in data, e.g. for VoIP telephony
SMS	Short Message System
TPEG	Transport Protocol Experts Group, digital transport information service
TSP	Telecommunications Service Provider
UMTS	Universal Mobile Telecommunications System
URL	Uniform Resource Locator (e.g. for web pages)
VoIP	Voice over Internet Protocol
VPN	Virtual Private Network
WLAN	Wireless Local Area Network
xDSL	Digital Subscriber Line, standards for information transmission for twisted-pair copper lines