

## TKS easyConnect Specifications

With the service TKS easyConnect the TKS Telepost Kabel-Service GmbH and Co. KG (hereinafter referred to as TKS) shall provide the customer:

- a standard access (off-base DSL or cable connection and on-base cable connection) with the highest possible technically realizable bandwidth of max. 50 Mbps under the existing technical and operational capabilities,
- the ISP service TKSSurf!, including a data flat rate for unlimited data transfer in accordance with the "Fair Use Policy",
- a phone line with
  - TKS easyConnect Basic (standard service)  
Includes a calling flat rate for landlines & mobile to all German networks, U.S. (does not include territories), Canada, & UK (does not include British Virgin Islands & Ireland), Internet flat rate, and the myTKS App. For details refer to TKS easyConnect price list.
  - TKS easyConnect Global (optional service)  
Includes a flat rate for calls made to certain countries (landlines and/or mobile), the myTKS App, and Internet flat rate; all according to the fair use policy. For details refer to TKS easyConnect price list.
- the possibility of using a voice mailbox (Sprachbox) free of charge.

There is no entitlement of claim if the customer can profit from the usage of free services not described in the specifications description. With a possible adjustment of performance neither entitlement of reduction, reimbursement or compensation nor the right to terminate with significant cause exists for the customer.

### 1. Standard services

#### 1.1 TKS Telephone Service

TKS provides the customer a telephone connection on basis of a DSL access. With connecting an IAD (Integrated Access Device) with appropriate configurations the usage of one analog telephone is possible. Depending on the technical conditions TKS has also off-base the possibility to provide the customer with telephone service on basis of a basic cable access. In these cases a MTA (Multimedia Terminal Adapter) is required and also an IAD (Integrated Access Device) for telephone usage. The MTA is provided by installation of the access and remains property of TKS. TKS has also on-base the possibility to provide the customer with telephone service on basis of a basic cable access. In these cases there is no IAD required. There is a Homespot modem pre-installed in all on-base locations therefore a MTA is not required. The Homespot Modem is property of TKS.

With the connection activation TKS assigns a telephone number to the customer in a network area assigned by the Federal Network Agency (Bundesnetzagentur). This number is a geographically telephone number.

The transfer of existing external telephone numbers (import from telephone number) to the TKS network, as well as the transfer of TKS telephone numbers to another provider (export from telephone number) is possible. Establishing call connections via other telephone providers is neither possible temporarily (Call by Call) nor via permanent preselection.

The operable availability of the internet and telephone access takes place on the monopole telecommunication connection device (first telephone outlet) "Telekommunikations-Anschluss-Einheit" (TAE) in the case that the connection is based on a DSL access, resp. a multimedia outlet (an alternative to the multimedia outlet is a cable outlet with the appropriate adapter) in the case that the connection is based on a basic cable access in the customer's accommodation.

#### 1.2 Telephone service connection from the TKS

TKS provides self-dialled connections to national and international destinations. The TKS easyConnect price list contains a list of available destinations as well as the applicable connection rates.

Charge free services, included budgets, and flat rates do not include premium rate services, personal numbers, value-added service, service numbers, shared-cost numbers, premium billing numbers, maritime services, and satellite connections.

Prices for connections to other countries of destination remain unchanged and can be referred to on the price list TKS easyConnect.

As a result of changes on the telecommunications market the purchasing conditions for connection charges may vary. In these cases TKS reserves their right to adjust the country list according to the new conditions. The adjustment to the country list does not affect existing customers.

#### 1.3 Telephone line options

TKS easyConnect Basic:

For details refer to TKS easyConnect price list.

TKS easyConnect Global:

For details refer to TKS easyConnect price list.

##### 1.3.1 Change of phone line option

Upgrades from easyConnect Basic to easyConnect Global are possible at any time, taking effect the next day.

Downgrades from easyConnect Global to easyConnect Basic can be requested to the end of the current month, taking effect at the end of the following month.

#### 1.4 myTKS App

The easyConnect landline number can be used for incoming and outgoing calls over a mobile device by using the myTKS App provided that the customer has an activated TKS easyConnect contract.

The myTKS App is offered for Android devices and Apple iPhones and can be downloaded free of charge in the respective App stores.

The myTKS App can be used over Wi-Fi or mobile data.

TKS is not liable for data volume used over the mobile device by using the myTKS App without a Wi-Fi connection or for all mobile connections made without using the myTKS App. This also applies for roaming.

#### 1.4.1 myTKS App Login Data

The service can be used via App on one mobile device per contract with the login data provided over the registration of a myTKS account. The registration for myTKS is conducted over the TKS web portal: [tkscalable.com](http://tkscalable.com).

The username and password from the myTKS account is the login data for the myTKS App.

The user will be prompted to select one of their App relevant contracts for pairing after login. An automatic pairing verification will take place after the contract selection has been made.

The use of more than one mobile device per contract is not possible.

Pairing of a new / different device to a contract is possible.

If the contract is cancelled or terminated the use of the myTKS App will be discontinued.

#### 1.4.2 myTKS App permitted hardware:

To use the myTKS App only Smartphones are permitted.

The prerequisites are:

Smartphones with the following operating systems:

- Android (Version 5.1 or higher)
- Apple iOS (Version 10.3 or higher)

#### 1.4.3 Roaming with the myTKS App

The myTKS App roaming usage is permitted.

Data volume deductions may apply when the myTKS App is not used over Wi-Fi.

Roaming charge for data usage can be charged if no option is booked.

If a data option is booked for roaming the included option data will also be used for the myTKS App when not connected over Wi-Fi.

#### 1.4.4 Emergency Calls

Emergency calls can only be placed via an existing GSM connection. If the customer doesn't have any signal the call will not be possible. Emergency calls via Wi-Fi calling are not possible.

#### 1.5 TKS easyConnect Fair Use Policy

The fair use policy permits a maximum total talk time of 20,000 min per month. The 20,000 min per month is a total talk time of calls to landlines and mobile connections (Basic or Global Flat) and also includes the outgoing calls with the usage of the myTKS App over a

mobile device. After 4 hours of continuous use the connection will automatically be disconnected.

Exceeding the fair use policy budget:

#### TKS easyConnect Basic

- The first time the customer exceeds the fair use budget they will be informed and warned by TKS.
- If the customer exceeds the fair use budget the second time in the following month they will be informed that starting at the next month they will be charged for all connections exceeding the fair use budget per standard calling rates (refer to TKS easyConnect price list).

#### TKS easyConnect Global

- The first time the customer exceeds the fair use budget they will be informed and warned by TKS.
- If the customer exceeds the fair use budget the second time in the following month they will be informed that starting at the next month the customer's tariff will be automatically changed to TKS easyConnect Basic tariff resulting in no more flat rates for the Global countries.
- If the customer exceeds the fair use budget also with the TKS easyConnect Basic Flat tariff the fair use regulations for the TKS easyConnect Basic Flat tariff apply.

#### 1.6 Standard services features

##### 1.6.1 Call Number Transmission

The call number of the access is transmitted for all outgoing calls unless customer requests permanent suppression of call number transmission. If the service feature call number transmission is activated, customer has the option to suppress transmission of the call number for individual calls. The feature suppression of call number is not possible for emergency calls to police and fire department.

##### 1.6.2 Calling Line Identification Presentation (CLIP)

The call number of incoming phone calls is transmitted and shown on the customer's display unless call number transmission is suppressed. For technical reasons this service feature cannot be offered in all regions.

##### 1.6.3 Voicemail Box

Voicemail Box (virtual answering machine) is provided to the customer free of charge with the activation of TKS easyConnect, the specification of the provided service is described in the „Voicemail-Box“ specifications.

##### 1.6.4 Call Waiting

During an existing voice call additional calls are signalled by a tone. The calling party's number may be displayed. The waiting call can be accepted additionally – alternating between lines is possible. Customers can request permanent deactivation of the call waiting feature.

### 1.6.5 Inquiry / Alternating between lines

Two connections may be alternately used from one telephone access, without having to intermediately disconnect a connection.

### 1.6.6 Speed Dialing

It is possible to enter up to 8 speed dialing destinations which can be activated by pushing a key.

### 1.6.7 Cost Control

In order to protect customers against very high invoices, TKS observes mechanically the originated call charges of every connection. With approaching the standard fixed limit, TKS will inform with every call setup the status. To protect the customer the connection will be blocked for outgoing calls after the second fixed limit has been reached. It is further possible to make emergency calls and calls to the customer service center the TKS. On customer request adjustments can be made to the limit by which the customer is warned and/or blocked. Within the first 3 months increasing in the limit can only be granted after a prepayment has been made.

## 1.7 Internet Access

### 1.7.1 Internet Access TKSSurf!

With TKS easyConnect the TKS provides access to the worldwide internet by means of an assigned dynamic IP address and a flat rate for data transfer within regards to the Fair Use Policy. TKS reserves their right to charge an additional fee for usage and if necessary block the internet access or even terminate, in cases of repetitively disregarding of the Fair Use Policy (refer to [www.tkscable.com/agb](http://www.tkscable.com/agb)).

The included flat rate only applies for internet usage and not for telephony (IP- telephony)

### 1.7.2 Rate of transmission

Depending on the used technical medium the maximum available standard internet speed off-base is up to 50 Mbps (cable or DSL connection) and on-base is up to 50 Mbps (cable connection).

With a DSL connection the rate of transmission speed with a downstream of 50 Mbps and an upstream of 10 Mbps represents the upper limit and cannot be guaranteed.

The actually attainable speed depends, apart from the technical conditions at the location, also on the network utilization of the internet backbone.

The transmission speed only refers to the direct Internet access. Transmission speed can be affected with simultaneous usage of the telephone service and internet access.

Bottlenecks within the Internet itself, which may lead to reduced transmission speeds, cannot be influenced.

Allocation of a permanent IP address is not part of the service specifications. User IP addresses are allocated dynamically.

DSL cannot be provided at all locations and must be verified and confirmed for each access individually. The actual transmission speed which can be reached at the customer's access depends on the actual physi-

cal conditions of the access line and can vary as the following:

transmission rate of up to 50 Mbps downstream and up to 10 Mbps upstream

transmission rate of up to 25 Mbps downstream and up to 5 Mbps upstream

transmission rate of up to 16 Mbps downstream and up to 1 Mbps upstream,

transmission rate of up to 6 Mbps downstream and up to 576 kbps upstream,

transmission rate of up to 2 Mbps downstream and up to 192 kbps upstream.

This transmission rates represents the upper limit and cannot be guaranteed.

With the basic cable off-base & on-base connection the rate-dependent transmission rate for downstream is 50 Mbps and upstream 2 Mbps These speeds represent the upper limit and cannot be guaranteed. The actually reached transmission rate depends on user density and usage intensity at the given point of time.

### 1.7.3 Internet speed upgrade

For an additional monthly payment a speed upgrade can be requested as followed:

- DSL connection (off-base)  
100/40 Mbps (down-/upload speed)
- Cable connection (off-base)  
100/6 Mbps (down-/upload speed)  
200/12 Mbps (down-/upload speed)  
400/25 Mbps (down-/upload speed)  
500/50 Mbps (down-/upload speed)
- Cable connection (on-base)  
100/3 Mbps (down-/upload speed).  
The 200/10 Mbps speed is only available in combination with easyTV.

The stated maximum down- and upload speeds represent the upper limit and cannot be guaranteed.

### 1.7.4 Internet speed downgrade

Change to a lower bandwidth is not possible in the form of a downgrade. Change to a lower bandwidth can only be processed with cancelling the present service (normal cancellation process applies) and reapplying for service (activation fee and interruption in service applies).

### 1.7.5 Authentication

The configuration of the IAD takes place automatically, as soon as the activation of the DSL access is complete and the first time the IAD is connected into the monopole telephone outlet (first TAE) that is located at the customer's premises.

The configurations of the necessary data for internet access and telephone service are transmitted automatically over the IAD interface.

A manual configuration is not possible.

With the realization of an off-base TKS easyConnect access via basic cable connection the configuration of the IAD takes place automatically, as soon as the activation of the cable access is complete and the first time the IAD is connected into the MTA (preinstalled by the

technician) that is connected to the multimedia outlet (an alternative to the multimedia outlet is a cable outlet with the appropriate adapter). The configurations of the necessary data for internet access and telephone service are transmitted automatically over the IAD interface. A manual configuration is not possible.

With the realization of an on-base TKS easyConnect access via basic cable connection the configuration setting will be done automatically as soon as the device is connected to the preinstalled Homespot modem that is connected to the multimedia outlet (an alternative to the multimedia outlet is a cable outlet with the appropriate adapter). There is no manual configuration needed by the customer and there is no manual configuration possible.

TKS offers support for the setup and later for any problems with the service when the IAD or the MTA is purchased from TKS. TKS reserves their right to charge for support when the problems were caused by inappropriate use and/or incorrect setup of the internet access caused by the customer.

## 2. Installation of the access

### 2.1 TKS easyConnect via DSL connection

With the activation process of the DSL connection an outlet (Monopole-TAE) will be installed in the vicinity of the primary terminal equipment. This connection unit terminates the telephone network and makes it possible to connect terminal equipment.

In case several broadband internet accesses are provided within an in-house-network, there may be interferences and other problems when used simultaneously.

The installation of the access – especially the line routing within the provider's network – is performed in accordance with the current regulations for standard installation which are valid at the time of the installation.

If during the installation or in the course of the contract it is required that the internet terminating line is installed in another location then the customer's request will be charged at customer own expense.

A further component of the installation is the provision of a configuration server by TKS, which takes over the automatic configuration of the MTA / IAD by the first connection of the device.

### 2.2 TKS easyConnect via basic cable connection

TKS / Vodafone Kabel Deutschland GmbH provides a multimedia-capable outlet as connection unit for the MTA.

With the activation of a TKS easyConnect access a capable MTA must be connected at the customer's premises. There are appropriate devices preinstalled in the customer's home or are provided by the technician with the installation of the access.

Activation of the MTA's for fast Internet access is performed via the preset and unchangeable 12-digit MAC address (Format: xx:xx:xx:xx:xx:xx).

In some cases on cable accesses a MTA gets used as Network access determination and an IAD gets connected to the MTA. In this case the customer receives

for the contract duration time a MTA free of charge. The MTA is property of TKS and must be returned in the condition that it was received with packaging and all accessories.

## 3. Availability

The average availability of TKS easyConnect connection is 97.0 %. After a 24-hour continuous utilization period the internet connection is disrupted for technical reasons. The reconnection can take place immediately for another 24-hours continuous utilization.

## 4. Additional specifications

Within the framework of existing technical and operational possibilities TKS, Vodafone Kabel Deutschland GmbH, and the Deutsche Telekom may provide additional specifications upon request. Such specifications are subject to separate charges which are based on the currently valid price list at the time when the specifications are ordered.

The following additional specifications may be provided:

### 4.1 Additional specification for TKS telephone access

The appropriate prices for these options are in the price list from TKS easyConnect.

#### 4.1.1 TDYRelaxed

With the request for this additional charged option it is possible to temporarily block the connection for a maximum time frame of 3 months, however a maximum of 90 days within a calendar year. To prevent abuse through third party usage the connection will be blocked for outgoing calls during this time frame. It is further possible to make emergency calls and calls to the customer service center the TKS.

## 5. Service

### 5.1 Within the responsibility of the Deutsche Telekom

Within the framework of existing technical and operational possibilities Deutsche Telekom performs disturbance elimination services of its technical equipment immediately. The following services are offered for the WIA (Wholesale Internet Access) and internet access:

#### 5.1.1 On-site service

##### 5.1.1.1 Acceptance of disturbance reports

TKS accepts disturbance reports every day under its service number and during the following times:

Mon. - Sun. 00:00 am – 24:00 pm

##### 5.1.1.2 Service availability Deutsche Telekom

Disturbance service is available on working days (Monday through Friday) from 8:00 am till 8:00 pm and on Saturdays from 08:00 am till 4:00 pm, provided these days are not official holidays.

##### 5.1.1.3 Disturbances appointment arrangements

If necessary, TKS arranges an appointment for the service technician's visit to the customer's premises on working days between 8:00 am and 2:00 pm or between 2:00 pm and 8:00 pm, on Saturdays between

8:00 am and 4:00 pm, provided these days are not official holidays.

If the service cannot be provided within the agreed period of time for reasons that lie within the customer's responsibility, a new appointment is made. In the event that the service technician has to make an additional trip, extra travel costs may be charged.

The disturbance elimination deadline from 24-hours is not applicable.

#### 5.1.1.4 Disturbance elimination deadline

In the cases of disturbance reports received during working days (Monday 0:00 am till Friday 8:00 pm) occurs the disturbance elimination within 24-hours (disturbance elimination deadline) of the disturbance being reported by customer. For disturbance reports received on Fridays after 8:00 pm, Saturdays, Sundays, and/or official holidays, the disturbance elimination deadline starts on the following working day at 0:00 am. If the end of the disturbance elimination deadline coincides with an official holiday, the disturbance elimination deadline is suspended and continued on the following working day. The disturbance elimination deadline is kept if the problem has been solved to the extent that the access may be utilized again.

#### 5.2 Within the responsibility of Vodafone Kabel Deutschland GmbH

Within the framework of existing technical and operational possibilities Vodafone Kabel Deutschland GmbH performs disturbance elimination services of its technical equipment. The following services are offered for the Vodafone Kabel Deutschland GmbH internet access:

##### Acceptance of disturbance reports

Vodafone Kabel Deutschland GmbH accepts disturbance reports every day 24 hours under its service number

#### 5.3 Customers responsibly in service area

The TKS or their representative contractor eliminates disturbances, which fall into the area of responsibility of the customer, exclusively after order was placed by the customer and hereby generates special computation (the prices are valid according to the current price list TKS easyConnect), following specification:

##### 5.3.1 On-site service

##### Acceptance of disturbance reports

TKS accepts disturbance reports every day under its service number and during the following times:

Mon. - Sun. 00:00 am – 24:00 pm

##### 5.3.1.1 Service availability

Disturbance service is available on working days (Monday through Friday) from 8:00 am till 8:00 pm, provided these days are not official holidays.

##### 5.3.1.2 Appointment arrangements

The TKS arranges principally for the service technician's visit a binding appointment. An appointment arrangement is possible from Mondays to Saturdays

between 8:00 am and 5:00 pm, provided these days are not official holidays.

If the service cannot be provided within the agreed period of time for reasons that lie within the customer's responsibility, a new appointment is made. In the event that the service technician has to make an additional trip, extra travel costs may be charged.

#### 5.3.1.3 Disturbance elimination deadline

5.4 In the cases of disturbance reports received during working days (Monday 0:00 am till Friday 8:00 pm) occurs the disturbance elimination within 24-hours (disturbance elimination deadline) of the disturbance being reported by customer and with appropriate short notice appointment arrangement with the customer. For disturbance reports received on Fridays after 8:00 pm, Saturdays, Sundays, and/or official holidays, the disturbance elimination deadline starts on the following working day at 0:00 am. If the end of the disturbance elimination deadline coincides with an official holiday, the disturbance elimination deadline is suspended and continued on the following working day. The disturbance elimination deadline is kept if the problem has been solved to the extent that the access may be utilized again.

#### 5.5 Within the responsibility of TKS

Within the framework of existing technical and operational possibilities TKS performs disturbance elimination services of its technical equipment. The following services are offered for the TKS telephone and internet access:

##### 5.5.1 Acceptance of disturbance reports

TKS accepts disturbance reports every day 24 hours under its service number

#### 5.6 Customers responsibly in service area

The TKS or their representative contractor eliminates disturbances, which fall into the area of responsibility of the customer, exclusively after order was placed by the customer and hereby generates special computation (the prices are valid according to the current price list TKS easyConnect), following specification:

##### 5.6.1 On-site service

##### 5.6.1.1 Acceptance of disturbance reports

TKS accepts disturbance reports every day under its service number and during the following times:

Mon. - Sun. 00:00 am – 24:00 pm

##### 5.6.1.2 Service availability

Disturbance service is available on working days (Monday through Friday) from 8:00 am till 8:00 pm, provided these days are not official German holidays.

##### 5.6.1.3 Appointment arrangements

TKS generates according to the cause of defect a ticket (work order) for the responsible local technician / service partner. According to the location TKS, the local technician, or service partner will arrange principally for the service technician's visit a binding appointment. An appointment arrangement is possible

from Mondays to Saturdays between 8:00 am and 6:00 pm, provided these days are not official holidays.

If the service cannot be provided within the agreed period of time for reasons that lie within the customer's responsibility, a new appointment is made. In the event that the service technician has to make an additional trip, extra travel costs may be charged.

#### 5.6.1.4 Disturbance elimination deadline

In the cases of disturbance reports received during working days (Monday 8:00 am till Friday 6:00 pm) occurs the disturbance elimination within 24 – 48 hours (disturbance elimination deadline) of the disturbance being reported by customer and with appropriate short notice appointment arrangement with the customer. For disturbance reports received on Fridays after 6:00 pm, Saturdays, Sundays, and/or official German holidays, the disturbance elimination deadline starts on the following working day at 8:00 am. If the end of the disturbance elimination deadline coincides with an official holiday, the disturbance elimination deadline is suspended and continued on the following working day. The disturbance elimination deadline is kept if the problem has been solved to the extent that the access may be utilized again.