



Settings, functions, tips:
An overview of O₂DSL.

Get started:
Your O₂ DSL handbook.



O₂ DSL: Simply affordable.

Congratulations and thank you for choosing O₂ DSL. O₂ now offers you everything from a single source – mobile phone, internet and DSL fixed network services.

This brochure gives you a quick overview of the O₂ DSL package: from the easy installation of the O₂ DSL router and individual functions, through to the customer service hotlines. You can look up specific topics to find more information and learn exactly how the system works. In addition to this handbook, you can also consult the quick start guide as well as the >>DSL Starter CD<< of detailed information. The DSL Starter CD contains:

1. The >>DSL Connection Manager<< software that gets you online quickly and reliably (see page 12) – including the handbook.
2. The O₂ DSL user handbook.
3. The comprehensive instruction manual for your O₂ DSL router – for those who want to know more.
4. The quick start guide which gives brief, clear instructions on how to install the O₂ DSL router.
5. The general terms and conditions – for your reference.
6. The warranty conditions from O₂ for your O₂ DSL router.

We hope you enjoy reading this handbook. When you're done, have fun surfing, e-mailing, calling and much more!



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**Explore your opportunities:
An overview of O₂ DSL.**

Discover the best about O₂ DSL. We explain the many functions of your broadband internet connection as well as the integrated DSL phone line. You will learn which services you can immediately benefit from – and which options you can use later. For example, you can order more bandwidth or switch to one of our flat rates. Whatever you choose – enjoy O₂ DSL!



More bandwidth, more fun: your broadband internet connection.

O₂ DSL is your way to experience state-of-the-art internet. The latest generation of ADSL is modern broadband internet technology that ensures you have the right equipment both today and for tomorrow. ADSL2+ enables more future bandwidth and higher future surfing speeds. This will give you access to many new, exciting applications!¹

Rapid transmission speeds – and hours of fun!

O₂ DSL provides transmission speeds of up to 2,048, 6,144 or even 16,384 kBit/s depending on the physical capabilities of your connection. O₂ DSL is already available in many areas.

Experience turbo power with Speed Ping and Power Upload.

In addition to your basic internet access, you can also order the following options – at any time:

- Speed Ping: it allows you to achieve far faster DSL response times – ideal for eBay users and gamers.
- Power Upload of up to 1.0 MBit/s: for those who need more bandwidth for uploads - when e-mailing larger files or uploading photos!

...If you decide only later that you would like more bandwidth, faster internet or any of the additional options, it's no problem. Simply order them at www.o2online.de. You can also decide on the invoicing method. You will initially receive printed invoices and can later switch to online invoicing.

An overview: your broadband internet connection.

Your hardware and software.

- ADSL2+ technology – with download speeds of up to 16,384 kBit/s (depending on your connection)
- O₂ DSL router in the characteristic O₂ design – with 2 analogue phone lines (for an analogue telephone and fax), WLAN, 4 LAN ports as well as a port for ISDN devices
- Plug & play thanks to automatic configuration – just connect the O₂ DSL router, install the DSL Connection Manager on your PC and enter the WLAN key you received in your welcome letter from O₂ – and start surfing straightaway
- Included with hardware: the DSL Connection Manager – your free PC software to configure and manage your wireless internet access, available for Windows operating systems from Windows 98 SE
- To use your broadband internet connection, you need a PC and the O₂ DSL router; it is not possible to use an analogue or ISDN modem with the O₂ DSL connection

...Would you like more information? Or do you have questions regarding any technical terms? You can find explanations of many specialised terms and abbreviations on pages 31 and 32. For more details, go to www.o2online.de.

¹ O₂ DSL is already available in many areas. To find out where, visit the O₂ Shop or go to www.o2online.de.



**All inclusive:
Your integrated O₂ DSL phone line.**

When you order O₂ DSL, as well as receiving a fast broadband internet connection you also automatically get a DSL phone line.¹ This means that you will no longer need an extra fixed network line such as that from Deutsche Telekom.

1 connection. 2 lines. Up to 10 numbers!

Enjoy the many convenient functions available:

- 2 phone lines are included – i.e. it is possible to make two calls and surf the internet at the same time²
- An analogue fax machine can be connected to the O₂ DSL router
- 4 fixed network numbers are included – you have the option of ordering 6 additional numbers; simply contact our customer service hotlines. You'll find the hotline numbers on the reverse of this brochure
- Digital voice quality – O₂'s data-based phone technology offers outstanding voice quality
- Many features – i.e. you can set different call forwarding commands, block the caller ID function for the next call, use call waiting, hold/toggle and hold three-way calls using the key pad of your touchtone phone³ – the caller ID display and sending features are default settings which can be disabled permanently in O₂'s customer portal at www.o2online.de
- Set up blocks, e.g. to premium rate numbers, by contacting our customer service hotlines (see pages 27)

¹ O₂ DSL is already available in many areas. To find out where, visit the O₂ Shop or go to www.o2online.de.

² In certain regions due to lower bandwidth availability only 1 phone line is included. In this case, only one call can be made at a time.

³ Only phones that support dual tone multifrequency calling (DTMF) or ISDN devices may be used with O₂ DSL. Call-by-call and preselection are not possible. For more information, contact our customer service hotlines.



**It couldn't be easier:
Setting up your O₂ DSL router.**

Thanks to the plug & play compatibility of your O₂ DSL router, it's very easy to install. The O₂ DSL router configures itself automatically once you connect the cables. If you should have any questions, our customer service hotlines and O₂ installation service are available to assist you. So read just a little more, get everything connected and start surfing and calling!



The plug & play feature: Plug in. Switch on. Start surfing.

It's easier than you think: set up your router using this quick start guide.

Installing your O₂ DSL router is very simple. After connecting, no complex configuration is necessary. The O₂ router automatically downloads the latest software updates with every connection to keep your system up to date. The quick start guide included with your O₂ DSL router provides easy, step-by-step instructions to assist you. The tables and notes on the following pages also provide additional information:

1. Plug your O₂ DSL router into a mains socket and then connect it to the telephone socket by inserting the plug into the F jack (labelled with a phone symbol). Wait about 5 minutes¹ until the O₂ DSL router has completed the automatic configuration process and the phone LEDs remain blue. Now, you can connect your touchtone phones² or fax machine as well as your computer/laptop to the O₂ DSL router (via WLAN or LAN cable). If you want to establish a WLAN or wireless connection, you need your WLAN key (WEP key) from your welcome letter. Please use the enclosed CD to configure your PC. The DSL Connection Manager software on the CD will automatically guide you through the set up process.

...If you have any questions, the CD contains a detailed O₂ DSL Router instruction manual – or see our answers to frequently asked questions on page 28. Detailed information is also available at www.o2online.de.

2. Normally, your O₂ DSL router will be working at this point, i.e. the blue phone LEDs remain on. If this is not the case, please check to make sure that you have completed all of the steps as described in the quick start guide, consult our FAQs, visit the O₂ customer portal at www.o2online.de or call our customer service hotlines.

3. If our customer service hotlines are unable to assist you, we will send a service technician to your home upon request.

¹ In some regions, it may be necessary to provide additional identification using a PIN as described in the quick start guide.

² Nearly all analogue phones support dual tone multifrequency dialling (DTMF). If you have any questions, please consult the phone instruction manual or contact the manufacturer.



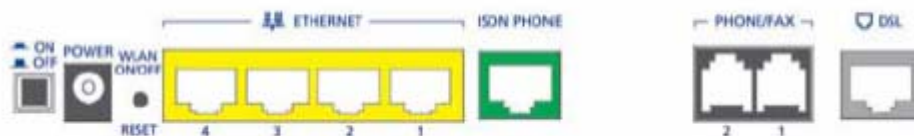
A detailed look at the ports on your O₂ DSL router.

The plugs of each cable are colour-coded for your convenience!

Port name	Colour	Description
Power	Black	Insert the enclosed power cord in this port and plug it into a suitable mains socket.
Ethernet (1-4)	Yellow	Connect this port to your computer or an external network distribution module (switch/hub).
ISDN phone	Green	Port for ISDN devices. ¹
Phone/fax fax	Black	Ports for up to 2 analogue phones or a phone and a machine. ²
DSL	Grey	Connect this port to your phone socket.

A detailed look at the switches on the back of your router.

Switch name	Function
On/Off	To turn the router on and off.
Reset	Press for an extended period (approx. 10 seconds): returns all router settings to the original factory default settings.
WLAN On/Off	Press briefly (<1 second): turns the WLAN on and off.



...The O₂ DSL router is available with different features. Please consult the operating manual of your O₂ DSL router to find out which functions are supported by your model.

¹ ISDN functionality is only available in certain routers. Complete ISDN-50-bus functionality is not available. See page 6 for features.
² Only phones that support dual tone multifrequency (DTMF) may be used. Phones with telephone socket plugs are connected using the enclosed adapter.



**The information you need:
The LED displays.**

The various function lights on your O₂ DSL router tell you if your router is working properly or whether you need to check a connection. The table to the right will help you when troubleshooting or connecting new devices. The plugs of each cable are colour-coded for your convenience.



A detailed description of the functions and meanings of the LED displays.

LED name	Display	Status	Description
Power	Blue	On	The device is on.
		Flashing	The device is conducting a self-test.
	Red	On	The device is off.
Ethernet/LAN 1-4	Blue	On	There is a LAN connection to a connected device.
		Flashing	The device is transmitting or receiving data
		Off	No local network connection.
WLAN	Blue	On	Wireless LAN is activated.
		Flashing	The device is sending or transmitting data.
		Off	WLAN is deactivated, there is no connection to the wireless network.
DSL	Blue	On	The router is connected to DSL.
		Flashing	The device is synchronising with the DSL network.
Internet	Blue	Off	There is no connection to DSL.
		On	The router is connected to the broadband internet.
		Flashing	Data being transmitted.
	Red	On	An error has occurred in connecting to the broadband internet.
		Flashing	You need to enter a PIN.
Phone 1-2, ISDN phone ²	Blue	Off	The router is not connected to the internet.
		On	The DSL phone connection was activated successfully.
		Flashing	Incoming call or receiver has been picked up.
		Off	No calls can be made on this line because the phone function has not been activated.

1 LED only present if the O₂ DSL router supports WLAN.

2 LED only present if the O₂ DSL router supports ISDN.



Customised to meet your needs: the DSL Connection Manager.

Change important settings –using the DSL Connection Manager.

Your DSL Connection Manager helps you in the set up and daily use of your O₂ DSL router.¹ To install, place the DSL Starter CD included with your router in your computer's disk drive. The DSL Connection Manager software is featured on the CD. The set up wizard will help you configure your network step by step. If you prefer, the Connection Manager will automatically make all the settings necessary to ensure a reliable and secure online connection for you.²

Change important settings and establish/disconnect secure internet connections – using the DSL Connection Manager.

It is necessary to use the DSL Connection Manager when surfing the internet with time-based billing plans. This is the only way to ensure that each connection is disconnected without any problems.

...More information on the software installation and the DSL Connection Manager is also available on the back of the O₂ DSL Router quick start guide and the DSL Connection Manager handbook, available on the CD in PDF format.

...If you have an O₂ DSL router with integrated WLAN functionality, please see next pages.

If you use WLAN:³

How to change your WLAN key.

If you use the automatic set up function for your O₂ DSL Router, your DSL Connection Manager is set to remind you to change your WLAN key every 28 days. This increases the security of your WLAN network. When you see the message >>You wanted to be reminded to change your WLAN key. Would you like to change it now?<<, simply click >>YES<< and follow the directions.

Of course, you can also change your WLAN key manually. To do so, follow these steps:

1. After installing your router, open the DSL Connection Manager by clicking on the corresponding desktop icon or following the menu path [Start/Programs/DSL Connection Manager/Start DSL Connection Manager] and click on >>Settings<<. 



2. Select "WLAN settings" in the menu on the left side of the screen.




Enter a new key in the bottom text field or click on >>Generate key<< to have the program create a new key for you.

3. Now, click on >>Save<< to save your changes. You can now print out the changed settings or save them as a text file.

...For security reasons, we recommend that you print out the new data and store it in a secure location.

Subsequent WLAN activation / deactivation.¹

If you deactivated WLAN in the DSL Connection Manager when first setting up your O₂ DSL router because, for example, your computer was not yet WLAN compatible, you can subsequently activate the WLAN function by following these steps:

1. Open the DSL Connection Manager by clicking on the corresponding desktop icon or following the menu path [Start/Programs/DSL Connection Manager/Start DSL Connection Manager] and click on >>Settings<<. 



2. Select "WLAN settings" in the menu on the left side of the screen.



Now, click the checkbox next to >>Activate WLAN<<. The DSL Connection Manager will automatically generate a name and secure key for your WLAN network. If you prefer, you can manually enter your own network name and key in the corresponding text fields.

3. Now, click on >>Save<< to save your changes. You can now print out the changed settings or save them as a text file.

...In order to deactivate the WLAN, you only need to remove the tick mark from the >>Activate WLAN<< box. The WLAN can also be activated or deactivated by briefly pressing (1 second) the reset button on the O₂ DSL router.

Configure an additional PC for use with the O₂ DSL router.

If you would like to set up the DSL connection on another PC, follow these steps:

1. Open the configuration wizard on the PC on which the DSL Connection Manager is already installed by following the menu path: [Start/Programs/DSL Connection Manager/Start DSL Connection Manager configuration wizard].
2. In the next window, select the option >>Set up additional PCs for your O₂ DSL router<< and click on >>Next<<.





3. Now, select the storage medium on which you want to save the configuration file. Depending on your PC, you can choose between a diskette¹, removable medium (e.g. USB memory stick) or CD drive. Please connect the selected medium or insert a CD in the corresponding drive and click on >>Finish<<.

1. Once the configuration file has been created, insert the diskette/CD or USB memory stick on which the file has been saved into the computer you would like to set up. Now, double-click on the file >>pcconfig.exe<< saved on the storage medium to start the configuration process.

The DSL Connection Manager and all of its current settings will be automatically installed on the new PC. It is not necessary to make any additional settings to use the secure internet connection. If the DSL Connection Manager has already been installed on this PC, only the configuration settings will be saved. It is not necessary to install the DSL Connection Manager once again.

It's that simple: if you have any questions on how to set up or use your O₂ DSL router, simply call our customer service hotline. You can find the numbers for our technical and general service hotlines on pages 27.

¹ If you save the file to a diskette, you will also need the DSL Starter CD to configure a second PC.



The settings for your phone functions.

Irrespective of whether you use an analogue touchtone or an ISDN phone, the many practical functions of the DSL phone service are available to you.

These include:

Call forwarding

Allow or block caller ID

Call waiting, hold, toggle and three-way calls

Speed dial

...The call forwarding options also allow you to divert calls to your O₂ mobile phone mailbox. You can find information about your mailbox on page 21.

How do these functions work? Nearly all of these settings can be made using your phone keypad. The call forwarding and caller ID settings can also be made at your O₂ customer portal at www.o2online.de.

A tip to establish phone connections more quickly. The O₂ DSL router waits about 5 seconds to place the call after you have dialled the last digit of the phone number. To shorten this waiting time, simply press the # key after the last digit.

...If you connect an ISDN phone or a telecommunications system, please note the following. In order to be able to use the phone codes (e.g. for call forwarding), it is necessary to deactivate the >>automatic keypad<< function on the ISDN device connected to the O₂ DSL router. For more information, please see the instruction manual for your ISDN device.

1. Set call forwarding.

Use this function if you want to forward an incoming call to a different number. Since your DSL phone line can have up to 10 different numbers, you can activate or deactivate the call forwarding option for your main phone number, another number or all of them. It is also possible to define different types of call forwarding for different numbers. You can choose from three different types of call forwarding options (see points 1.1 to 1.3).

...If a call is forwarded, you are only responsible for the cost of the forwarding.

1.1 Immediate call forwarding.

Incoming calls are forwarded directly to the desired number – without your landline phone ringing:

For the main phone number (i.e. the first number assigned to your DSL phone line)

Activate: *21* Destination number #

Deactivate: *21*#

Check status: *#21#

...The >>main phone number<< is the first phone number assigned to your DSL phone line. If you dial a call forwarding code for your main phone number, only incoming calls to this number will be forwarded.



For any other phone number (i.e. one of the up to 10 available):

Activate: *21* Destination number * Your phone number#

Deactivate: *21** Your phone number #

Check status: *#21* Your phone number #

For all phone numbers:

Activate: *21* Destination number* #

Deactivate: *21**#

Check status: *#21*#

1.2 Call forwarding if >>engaged<<.

This setting forwards incoming calls to the desired destination number only if your line is engaged, e.g. if you are currently on the phone.

For the main phone number (i.e. the first phone number assigned to your DSL phone line):

Activate: *67* Destination number #

Deactivate: *67*#

Check status: *#67#

For any other phone number (i.e. one of the up to 10 available):

Activate: *67* Destination number * Your phone number #

Deactivate: *67** Your phone number #

Check status: *#67* Your phone number #

For all phone numbers:

Activate: *67* Destination number *#

Deactivate: *67**#

Check status: *#67*#



1.3 Call forwarding for >>no answer<<.

Incoming calls are only forwarded if you do not answer within 20 seconds. You can change this period of time online at the O₂ customer portal at www.o2online.de.

For the main phone number (i.e. the first phone number assigned to your DSL phone line):

Activate: *61* Destination number #
Deactivate: *61*#
Check status: *#61#

For any other phone number (i.e. one of the up to 10 available):

Activate: *61* Destination number * Your phone number#
Deactivate: *61** Your phone number #
Check status: *#61* Your phone number #

For all phone numbers:

Activate: *61* Destination number *#
Deactivate: *61**#
Check status: *#61*#

2. Block caller ID for outgoing calls.

Your DSL phone line is set to transmit your phone number when you make an outgoing call. If you deactivate this function, your phone number will no longer be sent, i.e. it no longer appears on the other person's display. The function can only be deactivated for one call at a time.

Deactivate phone number sending for one call:

*31# Destination number

...If you want to permanently deactivate the called ID sending, you can do this online at the O₂ customer portal at www.o2online.de.

3. Call waiting when >>engaged<<.

If you are currently on the phone, this function will notify you of another incoming call by providing a short sequence of notes (call waiting). You then have the option of accepting, ignoring or rejecting the call. It is possible to put the current conversation on hold or terminate it.

If you want to put the first call >>on hold<<, you can switch between the two calls using the toggle function (see point 4) – or combine both calls in a three-way call (see point 5).

Activate/deactivate call waiting for all phone numbers:

Activate: *43#
Deactivate: *43#



4. Hold and toggle.

Toggling means you can simultaneously make two calls, i.e. one call is active, while the other one is on hold. You can switch between both calls as often as you like. The person on hold will hear a corresponding hold signal.

The "R" key is a function key on your analogue phone which you can use to make a number of settings. If you have an ISDN phone¹ or your phone does not have this key, please consult the instruction manual for your phone.

4.1 Hold call.

Press the R key. This will produce a hold signal. The call is put on hold.

4.2 Accept incoming call with call waiting.

Press the R-2 keys to accept the incoming call. The previously active call is put on hold. It is possible to toggle between both calls by pressing this key combination again.

4.3 Reject incoming call with call waiting.

Press the R-0 keys: The rejected caller will hear a dial tone.

4.4 Toggle between two calls.

Press the R-2 keys to toggle between two calls.

4.5 End active call and a held call / incoming call with call waiting.

Either end the call by pressing disconnect. The held call or call waiting will then ring. You now have 30 seconds to take the call.

Or press the R1 keys. The active call will be ended. The held call or call waiting will then be taken.

5. Three-way call

The >>on hold<< function gives you the option of conference calling with 2 additional callers, i.e. a conference call with a total of 3 participants. You need to be on an active call and holding an additional call (see point 4 "Hold and Toggle"). The 2 calls can then be brought together in three-way call. It does not matter whether or not you made the original calls. As soon as there are 2 active calls, you can initiate a three-way call.

You have control over the connections, i.e. if one of participants leaves the three-way call, the connection to the other remains. If, however, you leave, all connections are terminated.

¹ It is only possible to connect ISDN phones if the O₂ DSL router has the corresponding ISDN phone port.



How to set up a three-way call.

5.1 A call is active. A second incoming announces call waiting.

Hold active call:

Press the R 2 keys. The call waiting is accepted. The other call is put on hold.

Combine both calls:

Press the R 3 keys. You can now make a three-way call.

5.2 A call is active. You wish to make a second external call in order to establish a three-way call.

Hold active call:

Press the R key. The call is put on hold. A second external call can now be made.

Combine both calls:

Press the R 3 keys. You can now perform a three-way call.

6. Assigning phone numbers

The phone number assigning feature for connecting phone/fax, ISDN¹ devices etc. has been preconfigured.

If you wish to change this, do the following.

For analogue telephones/ faxes.

You can assign numbers either by using the DSL Connection Manager (refer to the DSL Connection Manager manual on the enclosed CD-ROM) or by using the user interface of the O₂ DSL router (refer to the operating instructions for the O₂ DSL router on the CD-ROM).

For ISDN¹ devices. Number assigning takes place directly within the ISDN device. For further information refer to the instructions for the ISDN device.

¹ It is only possible to connect ISDN phones if the O₂ DSL router has the corresponding ISDN phone port.



Easy to use with your router: Your O₂ mobile phone mailbox.

Answering machine included: Use your existing O₂ mobile phone mailbox with O₂ DSL. If you have an O₂ mobile phone, you can use the same mailbox for your DSL phone as well. You only need to forward calls to your DSL phone number to your mobile mailbox number. There are no charges for forwarding calls to your O₂ mobile phone mailbox. Calling your O₂ mobile phone mailbox from your O₂ DSL phone line is also free of charge. Your mobile phone mailbox number is Area code Mailbox code Your phone number. You can access your messages every time you call your O₂ mobile phone mailbox.

...For the quick and easy set up of call forwarding to your O₂ mobile phone mailbox, see next pages .

You should know: Your mobile phone mailbox code.

The mailbox code is based on your network area code:

3 3 for 0179, 0176

1 3 for 0170, 0171, 0175, 0160, 0151

5 5 for 0172, 0173, 0174, 0162, 0152

9 9 for 0177, 0178, 0163

Forgot your mailbox pin? No problem!

Simply call your mailbox from your mobile phone and reset your pin.

Call: 333

Configuration: 9

Change pin: 4

Easy and convenient: Listening to your mailbox messages.

There are three options for listening to your mailbox messages:

1. By calling from the O₂ mobile network or that of our roaming partner, T-Mobile: 333. On most mobile phones, it is possible to access the mailbox by pressing the "1" key for about 3 seconds.

2. From German fixed network numbers or other German mobile networks:

Area code Mailbox code Your phone number

3. From abroad:

Area code without >0< Mailbox code Your phone number

When calling from abroad, press the * key as soon as you hear your mailbox message, enter your pin and confirm by pressing #.

Overview:

Mailbox statistics for voice messages.

Number of messages that can be received: 50

Duration of received/sent messages: max. 3 minutes

Storage time for new messages: 17 days



Storage time for saved messages: 5 days
Duration of the personal greeting: max. 2 minutes

...For more detailed information on your mailbox, consult the user manual for your mobile phone contract or go to www.o2online.de.



**Just enjoy:
Your O₂ Services.**

If you are an O₂ mobile phone customer, you are already familiar with the many additional services we offer. Our O₂ DSL customers also benefit from a wide range of convenient extras, including the extensive O₂ Communication Center. This tool allows you to easily manage your e-mails, address book and appointments. The O₂ online customer portal also makes your life easier. Try it sometime!



O₂ Communication Center: Featuring your e-mails and contacts!

The O₂ Communication Center allows you to have your contacts with you at all times.

Miss an important e-mail? Not with O₂'s E-Mail direct service!

Thanks to the >>E-Mail direct<< service from O₂, you will never miss an important e-mail when away from your computer again. Just go to email.o2online.de to receive your e-mails on your mobile phone from providers such as GMX, WEB.DE, etc.

Have you lost your mobile's phone book? Not with our free phone book backup!

The phone book backup feature in the O₂ Communication Center makes it easy to save the personal data stored on your mobile phone –and it's free.

1. Open the main menu on your mobile phone.
2. Depending on the model, you will find the >>Synchronize<< command in the >>Organizer<<, >>Connect<< or >>Settings<<.
3. Click on >> O₂ Sync<< to save your contacts.

...Note: If you cannot find >>o2 Sync<< under the Synchronization option in your mobile phone menu, your mobile phone is not properly set up for this service. Send a free SMS with Sync to 80100 and save the settings you receive. If your mobile phone cannot receive the automatic settings via SMS, you can also make these changes manually.

Save your phone book free of charge at www.o2online.de/goto/telefonbuchsicherung.

Only one address book.

Avoid having different addresses in your e-mail programs or the O₂ Communication Center. Simply synchronize your address books! Download the synchronization software for your PC at www.o2online.de/goto/mc-sync-software.

...What's more: You can also use the O₂ Communication Center to answer e-mails sent to your existing accounts, e.g. GMX, WEB.DE, AOL, etc.

1 It is only possible to transfer data from the O₂ Communication Center server to a mobile device and vice versa, and synchronize data if the device supports the SyncML standard and has been preconfigured and released by O₂. The range of services available in the O₂ Communication Center may be limited depending on the capabilities of other devices used. Only phone book entries from the device's memory can be transferred and synchronized, not ones stored on the SIM card.



Customise. Change. Upgrade: >>My O₂<< – your customer portal.

Would you like to add the Power Upload option? Or change your O₂ DSL rate? Or learn how to block caller ID? You can do all of these things in just one place: >>My O₂ << – your online customer portal. Go to www.o2online.de and click on >>My O₂ <<. You can make the changes you want quickly and easily online, 24 hours a day – and this option is also less expensive than our customer service hotlines.

An overview of available options at >>My O₂<<:

- Change your rate plans – e.g. increase the bandwidth from up to 2,048 kbit/s to up to 16,384 kbit/s
- Order a flat rate, e.g. the Surf Flat Rate or a Phone Flat Rate
- Order additional options such as Speed Ping or Power Upload
- Make changes to the fixed network settings for each phone number, e.g. set call forwarding options or activate/deactivate caller ID
- Switch from paper invoices to online billing

The mobile phone classics are now online: SMS and MMS messages.

From the internet to your mobile: Web to SMS.

You can also use the internet to send all types of messages to mobile phones – including classic SMS, SMS to speech and Flash SMS. Simply type the text and send your message at www.o2online.de/goto/sms versenden.

Try it today:

Send and receive MMS via the internet.

Your mobile phone does not support MMS? No problem! Simply send your MMS messages from the internet at www.o2online.de/goto/mms, and it will go directly to the recipient's MMS-compatible phone. If this phone does not support MMS, the recipient will receive an SMS notifying him/her to view the message on the internet.



You'll get there quicker: with our help.

From set up to operation: We have designed O₂ DSL to be very simple. If you still have questions, just contact our customer service hotline. If you still have questions, just contact our customer service hotline. You will be connected with the appropriate person who will provide you with the answers you need. If you have questions on terms or abbreviations, we have the answers right here. Just look at pages 31-32.



The solution is simple: Just call!

Customised service. If you have queries or wish to make changes to your contract, you can contact our range of hotlines, in addition to the information and services available at www.o2online.de.

1. Our customer service hotline provides support for all contract issues and can help you set up your O₂ DSL router:

- Any queries regarding the full functionality of the O₂ DSL router
- Contract changes, such as switching rates and options or adding a Phone Flat Rate, etc.
- Changes in contact data
- Activating or deactivating blocks
- Questions about invoices

How to reach our hotline:

- Using your O₂ SIM card
0179 55 222 (domestic call free of charge)
- Or from the Deutsche Telekom network
01805 62 43 57 or 01805 o2HELP (0.14 €/min.; mobile phone charges may vary)

2. The extended technical customer support hotline can assist you with all technical problems which occur while using the router, e.g. when setting up your PC.

How to reach our extended technical customer service hotline:

0900 1 22 55 62 or 0900 1CALLo2 (0.89 €/min. from the Deutsche Telekom network and your O₂ SIM card, different charges are possible from other mobile phone networks)

If our hotline cannot assist you further, we will send a service technician to your home upon request.



Frequently asked questions – direct answers.

Can I make phone calls and use the internet at the same time with O₂ DSL?

Yes, you can have 2 phone calls³ at the same time and surf on several PCs or laptops. O₂ DSL is designed to ensure outstanding voice quality at all times.

Can I connect an ISDN phone system (e.g. Eumex)?

Yes, you can use an ISDN phone system by connecting it to the green port on the O₂ DSL router. Please note that O₂ DSL only supports certain ISDN performance features and any new numbers provided by O₂ must be assigned in the ISDN phone system. Please consult the instruction manual for your ISDN phone system for further information on assigning phone numbers.

Will I receive a separate bill for my DSL use, or will this be included on my mobile phone bill?

In order to provide the greatest possible transparency, you will receive only one bill¹ for the services you receive from O₂.

Can I connect several PCs/laptops/game consoles via LAN or WLAN?

Yes, you can connect several devices to the O₂ DSL router. You can connect up to 4 devices directly via LAN or up to 32 devices via WLAN. In order to ensure a functional wireless connection, please note that the WLAN security settings on each device must correspond to the settings configured on your O₂ DSL router. For more information, please consult the instruction manual on the CD.

What should I do if I have any questions about my contract data, setting up the router or blocking certain features?

If you have any questions or wish to make changes to your contract, you can find information and online services available in your customer portal (at www.o2online.de) or call our customer service hotline.

How can I assign my phone numbers?

Please use the DSL Connection Manager software found on the CD. The software will allow you to assign your phone numbers to your various analogue lines. Important: Phone numbers for ISDN devices are assigned directly in the ISDN device. Please consult the instruction manual for your ISDN device if you have any questions.

How can I connect my analogue fax machine?

To use your analogue fax machine, plug it into one of the two analogue ports on the O₂ DSL router. Please be sure to assign the appropriate phone number for your fax machine to the analogue port to which your fax machine is connected.

¹ Special phone numbers called using your O₂ DSL line, such as 118xx, 0900xx and 012xx numbers, may be listed on a separate invoice.

² Only possible if your O₂ DSL router supports WLAN.

³ Only 1 phone line is included in some areas due to limited bandwidths. In this case, only one call can be made at a time.



**A good sign:
CE compliance and recycling.**

A quick explanation: CE compliance.

The O₂ DSL router is designed for use with WLAN² 2.4 GHz within the European Union and Switzerland. There are restrictions to its use in France.

The CE symbol confirms that the device meets the necessary conditions as stated in the R&TTE guideline.



The compliance declaration can be found on O₂'s customer portal on the internet.

...What's more: We guarantee much more than just CE conformity. Our warranty terms are available in a PDF file on the enclosed CD.

Important: Environmentally-friendly disposal.

Once you are finished using your O₂ DSL router, please bring the device to the collection point of your community waste management organisation. The symbol to the right means that the device may not be disposed of in your household rubbish. According to the Electrical and Electronic Equipment Act, owners of old devices are legally required to dispose of these items separately. Please do your part in protecting our environment by not disposing of this device with the household rubbish.



...Important: Your device contains confidential data which could be detrimental to you if released. If you want to dispose of the device or give it to someone else, be sure to reset the factory settings first (= press the reset button for about 10 seconds).



**Be careful:
Safety instructions.**

For your own safety, please read and follow these instructions and advice:

Device location and setup:

- The device is intended only for indoor use
- Be sure to lay all connecting cables so that no one can step on or trip over them; do not place any items on the power cord
- Never expose the device to moisture, dust or corrosive liquids; never use the O₂ DSL router near water (e.g. in a laundry room or next to a swimming pool)
- Important: The device can become quite warm (up to 45° C) when on. For this reason, please take the following into account when setting up the device:
- Never place the device in direct sunlight
- Ensure that the device is always in a well-ventilated area; never cover it
- Place the device in an area out of reach of children

Using the power cord:

- Only use the power cord supplied with your O₂ DSL router; only plug the power cord or adapter into suitable mains sockets with the indicated voltage
- Do not use the device if the power cord is damaged as this could cause electric shocks; if the power cord is damaged, pull out the fuse and immediately remove the power cord from the mains socket
- Do not try to repair the power cord; if you need a new power cord, please contact our hotline

General information:

- Never install the device during a thunderstorm; never connect or disconnect any power cables during a thunderstorm
- Never open the device; opening or removing the cover exposes you to dangerous voltage or other risks; maintenance and repair work is only to be performed by authorised specialists; if you have any questions, please contact our hotline
- If you mount the device on the wall, please be careful not to drill into any electrical, gas or water lines
- Use a dry cloth only to clean the device



A great help: Technical terms and abbreviations.

ADSL2+

Transmission technology for broadband internet connections used by private customers. This technology (currently) allows for bandwidths of up to 16,384 kbit/s.

Analogue phones

Conventional telephones which can be connected to standard phone jacks.

Autoconfiguration

This latest O₂ technology makes it possible for O₂ to make settings to the O₂ DSL router remotely. What this means for you: You no longer need a user name or password – simply connect the router and start surfing and calling in no time.

Broadband connections

Rapid internet connections at over 764 kbit/s.

Download/upload speeds

The speeds provided by the DSL connection for transmitting data. Download means: >>from the internet to the user<<. Upload means: >>from the user to the internet<<.

DSL (Digital Subscriber Line)

A connection technology based on conventional copper phone cables which requires special hardware (e.g. the O₂ DSL router).

Firewall

Software designed to protect you from threats from the internet. It specifically limits internet traffic and filters out potential attacks on your PC.

Flat rate

A fixed standard billing rate per month regardless of the amount and duration of service used.

ISDN (Integrated Services Digital Network)

An enhancement of analogue phone technology which offers additional phoning options. It is possible to connect ISDN devices to the O₂ DSL router.

LAN (Local Area Network)

Technology for network connections (Ethernet) between various PCs as well as between PCs and an O₂ DSL router.

LED

Small lights on your O₂ DSL router which indicate the status of various functions.

**Mbit/s (Megabits per second)**

This figure describes the transmission speed (upload or download) of your DSL line.

Number porting

The option of >>transferring<< existing phone numbers when switching providers. O₂ can assist you with any questions regarding terminating your contract with your previous network operator and will port your existing numbers to your new O₂ DSL line.

O2 DSL router

Device used to operate the DSL service. Compatible devices can be connected to it.

Plug & play installation

Thanks to autoconfiguration, it is not necessary to make any settings to O₂ DSL during the installation. For O₂ customers, installing the router is simple – and thanks to plug & play, they can start calling and surfing straightaway.

Power Upload

An additional O₂ DSL option which allows for an increased upload speed of 1 Mbit/s. This allows, for example, faster uploading of photos to the internet.

Speed Ping

An additional O₂ DSL option which improves internet response times – ideal for eBay users and gamers.

WLAN (Wireless Local Area Network)

Cable-free internet connection to PCs. In other words, a wireless connection is established between the O₂ DSL router and WLAN-compatible PCs/laptops.

WLAN key

The WLAN key is the encrypted password for the wireless network (WLAN). For your security, your WLAN key will be automatically configured when you purchase O₂ DSL. The WLAN key is provided in your welcome letter.

WPA/WEP

Two WLAN encryption techniques supported by the O₂ DSL router. This technology should be used to protect your network from unauthorised access.



At a glance: Call forwarding codes.

Immediate call forwarding.

For the main phone number (i.e. the first phone number assigned to your DSL phone line):

Activate: *21* Destination number #
Deactivate: *21*#
Check status: *#21#

For any other phone number (i.e. one of the up to 10 available):

Activate: *21* Destination number * Your phone number #
Deactivate: *21** Your phone number #
Check status: *# 21* Your phone number #

For all phone numbers:

Activate: *21* Destination number *#
Deactivate: *21**#
Check status: *#21*#

Call forwarding if >>engaged<<.

For the main phone number (i.e. the first phone number assigned to your DSL phone line):

Activate: *67* Destination number #
Deactivate: *67*#
Check status: *#67#

For any other phone number (i.e. one of the up to 10 available):

Activate: *67* Destination number * Your phone number #
Deactivate: *67** Your phone number #
Check status: *#67* Your phone number #

For all phone numbers:

Activate: *67* Destination number *#
Deactivate: *67**#
Check status: *#67*#



Call forwarding for >>no answer<<.

For the main phone number (i.e. the first phone number assigned to your DSL phone line):

Activate: *61* Destination number #

Deactivate: *61*#

Check status: *#61#

For any other phone number (i.e. one of the up to 10 available):

Activate: *61* Destination number * Your phone number #

Deactivate: *61** Your phone number #

Check status: *#61*#

For all phone numbers:

Activate: *61* Destination number *#

Deactivate: *61**#

Check status: *#61*#

... TIP: You can reduce the amount of time required to establish the connection by pressing the # button on your phone after dialling the number you wish to call.

Always at hand: the call forwarding codes!

Simply detach the card and keep it next to your phone.



Do you have any more questions? You can find the answers here!

Information and tips on the internet.

Available at: www.o2online.de

Or:

0179 55 222 – domestic call free of charge when using your O₂ SIM card.

01805 62 43 57 or 01805 o2HELP

(0.14 €/min. from Deutsche Telekom fixed network numbers; mobile phone prices may vary).

For technical questions:

0900 1 22 55 62 or 0900 1CALLo2

(0.89 €/min. from Deutsche Telekom fixed network numbers and using your O₂ SIM card; prices may vary from other mobile phone networks).

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Customer Service

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