devolo Magic 2 LAN^{1-1}
While the information in this manual has been compiled with great care, it may not be deemed an assurance of product characteristics. devolo shall be liable only to the degree specified in the terms of sale and delivery.

The reproduction and distribution of the documentation and software supplied with this product and the use of its contents is subject to written authorization from devolo. We reserve the right to make any alterations that arise as the result of technical development.

Trademarks

Android™ is a registered trademark of Open Handset Alliance.
Linux® is a registered trademark of Linus Torvalds.
Ubuntu® is a registered trademark of Canonical Ltd.
Mac® and Mac OS X® are registered trademarks of Apple Computer, Inc.
iPhone®, iPad® and iPod® are registered trademarks of Apple Computer, Inc.
Windows® and Microsoft® are registered trademarks of Microsoft, Corp.
devolo, dLAN® and the devolo logo are registered trademarks of devolo AG.

All other names mentioned may be trademarks or registered trademarks of their respective owners. Subject to change without notice. No liability for technical errors or omissions.

devolo AG
Charlottenburger Allee 67
52068 Aachen
Germany
www.devolo.com

Aachen, September 2018

Version 1.0
1 Preface

Welcome to the fantastic world of devolo Magic!

In no time at all, devolo Magic transforms your house into a multimedia home that is ready for the future today. devolo Magic gives you noticeably higher speeds, more stability and greater range, providing the perfect Internet experience as a result!

1.1 About this manual

Carefully read all instructions before setting up the device and store the manual and/or installation guide for later reference.

After a brief introduction to „devolo Magic” and to the devolo Magic 2 LAN in Chapter 2, Chapter 3 tells you how to successfully start using the adapter in your network.

Chapter 4 describes in detail the setting options of the built-in configuration interface.

Tips for bandwidth optimisation, information about environmental compatibility of the device, as well as our warranty terms, can be found in Chapter 5 at the end of the manual.

Description of the icons

This section contains a brief description of the icons used in this manual and/or on the rating plate, the device connector, as well as the icons used on the package:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="icon.png" alt="Safety Symbol" /></td>
<td>Very important safety symbol that warns you of imminent electrical voltage which if not observed can result in serious injury or death.</td>
</tr>
<tr>
<td><img src="icon.png" alt="Warning Symbol" /></td>
<td>An important safety symbol that warns you of a potentially dangerous situation involving a burn hazard which can result in minor injuries or damage to property.</td>
</tr>
<tr>
<td><img src="icon.png" alt="Note Symbol" /></td>
<td>An important note that should be observed which can potentially lead to material damages.</td>
</tr>
<tr>
<td><img src="icon.png" alt="House Icon" /></td>
<td>The device may only be used indoors in dry conditions.</td>
</tr>
</tbody>
</table>
1.2 Intended use

Use devolo products, devolo software and the provided accessories as described to prevent damage and injury.

**Products**

Devolo products are communication devices designed for indoors.* Depending on the product, they are equipped with a **PLC** (PowerLine Communication) and/or a Wi-Fi module. Computers, laptops, smartphones, tablets, smart TVs and other devices connected this way are integrated into a home network over the existing electrical wiring and/or Wi-Fi without any complicated wiring. Devolo devices must never be used outdoors because the high temperature fluctuations and moisture can damage both the product and the power line. Devolo products may not be installed at a height above **two metres** unless an additional fastening mechanism is available. The products are intended for operation in the EU, Switzerland and Norway.

* The only exceptions are devolo outdoor products, which are suited for the outdoor use thanks to their IP certification.

**Software**

Devolo devices can be used only with the free, downloadable programs approved and available on devolo AG’s website (www.devolo.com) and in app stores (iOS and Google Play). Any modifications to the product-specific firmware or software could damage the products and, in the worst-case scenario, render them unusable and negatively affect conformity.

Always use the most up-to-date software version to make sure you have the latest security functions and device updates. The installed devolo software notifies you automatically if a new software version is available.
Accessories
Use only the provided accessories:
- Network cable: RJ45-RJ45 Cat-5e UTP

1.3 CE Conformity

This product complies with the technical requirements of the directives 2014/35/EU, 2014/30/EU, 2011/65/EU und 2009/125/EC.

This product is designed for use in the EU, Switzerland and Norway.

A printout of the simplified CE declaration of this product is separately included and can also be found under www.devolo.com/supportce.

1.4 Safety notes

It is essential to have read and understood all safety and operating instructions before the devolo device is used for the first time; keep them safe for future reference.

DANGER! Electrical shock caused by electricity
Do not reach into the electrical socket, do not open the device and do not insert any objects into the electrical socket or into the ventilation openings

Users do not need to carry out any maintenance on devolo devices. In the event of damage, disconnect the devolo device from the mains supply by pulling it or its plug out of the electrical socket. Then contact qualified specialist personnel (after-sales service) exclusively. Damage is deemed to have occurred, for example,
- if the power plug is damaged.
- if the devolo device has been showered with liquid (such as rain or other water).
- if the devolo device is inoperable.
- if the housing of the devolo device is damaged.

Do not plug devolo devices directly into each other. Devices that are plugged into each other can experience a decrease in transmission rate.

DANGER! Electric shock caused by electricity
Device must be plugged into a power socket with a connected earth wire

devolo devices may be operated only on a mains power supply as described on the rating plate.

To disconnect devolo devices from the mains supply, unplug the device from the electrical socket.

The power socket and all connected network devices should be easily accessible so that you can pull the power plug quickly if needed.
CAUTION! Heat development during operation
Certain housing components can become very hot in certain situations. Attach device so that it is touch-proof, observing optimal positioning.

devolo devices should only be installed at locations that guarantee adequate ventilation. Slots and openings on the housing are used for ventilation:

- **Do not cover** devolo devices during operation.
- Do not place any objects on devolo devices.
- Do not insert any objects into the openings of devolo devices.
- devolo devices must not be placed directly next to a naked flame (such as fire or candles).
- devolo devices must not be exposed to direct heat radiation (e.g., radiator, direct sunlight).

**CAUTION!** Damage to housing from cleaning agents containing solvents
Clean only electroless and with dry cloth.

1.5 devolo on the Internet
For detailed information on our products and devolo Magic, visit www.devolo.com.
There you will find product descriptions and documentation, and also updates of devolo software and your device’s firmware.
If you have any further ideas or suggestions related to our products, please don’t hesitate to contact us at support@devolo.com!
2 Introduction

2.1 devolo Magic

Home is where devolo Magic is – in no time at all, devolo Magic transforms your house or flat into a multimedia home of the future with noticeably higher speed, more stability and greater range, providing the perfect Internet experience as a result!

Be inspired by products that are astonishingly easy to install, with impressive, innovative technology and unbeatable performance.

The product name concept

The devolo Magic 2 LAN 1-1 name concept has the following structure:

<table>
<thead>
<tr>
<th>Product family</th>
<th>devolo Magic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance category</td>
<td>2</td>
</tr>
<tr>
<td>Transmission type</td>
<td>LAN (Ethernet)</td>
</tr>
<tr>
<td>Number of sockets</td>
<td>1</td>
</tr>
<tr>
<td>Integrated electrical socket</td>
<td>1 (= yes)</td>
</tr>
</tbody>
</table>

Be ready for the technology of the future today

devolo Magic embodies the new generation of the tried-and-tested Powerline technology (PLC) based on the cutting-edge G.hn architecture. G.hn was developed by the International Telecommunication Union (ITU) with ongoing development provided primarily by the HomeGrid Forum industry association. devolo Magic products are certified according to HomeGrid standards and are compatible with other HomeGrid-certified products.

Like the HomePlug AV technology used in established devolo dLAN devices, devolo Magic uses the household mains supply for data transmission and secures ideal performance and stability in locations where network cables are not viable or desired and/or the WiFi frequently falls short due to ceilings and walls.
To set up a devolo Magic network, you need at least two devolo Magic devices. For technical reasons, devices from the devolo Magic series are not compatible with dLAN devices.

2.2 The devolo Magic 2 LAN

A brief introduction to the devolo Magic adapter:

- **Unpack – plug in – get started** and be ready for the new generation of tried-and-tested Powerline technology:
  - **Speed** and **stability** — thanks to consistent data transmission speed up to 2400 Mbps over distances of up to 500 meters, the devolo Magic 2 LAN promises entertainment at the highest level.
  - **Security** — with 128-bit AES Powerline encryption
  - **Energy-efficiency** — the integrated PowerSave mode cuts energy consumption automatically during low data traffic.
  - A devolo Magic 2 LAN transforms any electrical socket in your household electrical wiring into a Gigabit LAN Internet access point.
  - Its integrated electrical socket can be used (like a normal wall socket) to supply power to an additional network device or a power strip.
  - The Gigabit LAN port on the devolo Magic 2 LAN lets you connect a stationary network device — such as a game console, television or media receiver — to your Internet access point over the Powerline network (e.g. Internet router).

The devolo Magic 2 LAN features

- One Gigabit network connection
- One indicator light
- The LED status display can be disabled. You can find more information about this in Chapter 4 Configuration or in the product manual for the devolo Cockpit software available online at [www.devolo.com/cockpit](http://www.devolo.com/cockpit).
- One PLC/reset button (next to the network connection)
- One integrated electrical socket
2.3 Pairing

devolo Magic adapters that are in factory default condition, i.e. have been purchased or successfully reset (see Chapter Resetting a devolo Magic adapter or removing it from a devolo Magic network), automatically start to attempt to pair with another devolo Magic adapter when reconnected to the mains supply.

Starting up a new devolo Magic network

After plugging the devolo Magic adapters into available power sockets, a new devolo Magic network is established automatically within 3 minutes.

Expanding an existing devolo Magic network by adding another devolo Magic adapter

In order to use a new devolo Magic 2 LAN in your devolo Magic network, first you have to connect it to your existing devolo Magic adapters devices as a network. This is accomplished by using a shared password, which can be assigned in various ways:

- Using devolo Cockpit or the devolo app (see Chapter 3.4 Installation of devolo software)
- Using the web interface (see Chapter 4.2.2 PLC)
- Using the PLC/reset button as described below.

1. To do so, plug the new devolo Magic adapter into an available power socket and, for approximately 1 second, press the PLC/reset button on a devolo Magic adapter in your existing devolo Magic network.

   - For each pairing operation, only one additional devolo Magic adapter can be added at a time.

2. Within 3 minutes, press the PLC/reset button on the devolo Magic adapter that you want to add to your existing devolo Magic network. The LED of this adapter now also flashes white.

   - After a short time, the flashing LED becomes a steady white light. The devolo Magic adapter has been successfully integrated into your existing devolo Magic network.

   - You can find detailed information about installing devolo Magic adapters in Chapter 3.3 Connecting the devolo Magic 2 LAN.

Resetting a devolo Magic adapter or removing it from a devolo Magic network

1. To remove a devolo Magic adapter from your devolo Magic network and successfully restore its entire configuration to the factory default settings, press and hold the reset button longer than 10 seconds.

2. Wait until the LED flashes white and then disconnect the devolo Magic adapter from the mains supply.
Keep in mind that all settings that have already been made will be lost!

### 2.3.1 Reading the indicator light

The integrated indicator light (LED) shows the status for the devolo Magic 2 LAN by illuminating and/or flashing:

<table>
<thead>
<tr>
<th>LED</th>
<th>Flashing behaviour</th>
<th>Meaning</th>
<th>LED status display (web interface*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Red LED</td>
<td>Lights up for up to 2 sec.</td>
<td>Start-up process</td>
<td>Cannot be dis-abled</td>
</tr>
<tr>
<td>2 Red LED</td>
<td>Flashes at intervals of 0.5 sec. (on/off)</td>
<td><strong>Status 1</strong>: The reset of the devolo Magic adapter was successful. The PLC/reset button has been pressed and held for 10 seconds. <strong>Status 2</strong>: The devolo Magic adapter (once again) has the factory default settings. Since the last reset, no pairing with another devolo Magic adapter has taken place. Connect the adapter with another devolo Magic adapter to create a full-fledged PLC network as described in Chapter 2.3 Pairing.</td>
<td>Cannot be dis-abled</td>
</tr>
</tbody>
</table>
### Led Flashing Behavior and Meaning

<table>
<thead>
<tr>
<th>LED</th>
<th>Flashing Behaviour</th>
<th>Meaning</th>
<th>LED Status Display (Web Interface*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Red LED</td>
<td><strong>Status 1</strong>: The other network nodes are in standby mode and cannot currently be accessed over the mains supply. The PLC LEDs of the other devolo Magic adapters flash white only for a short time. <strong>Status 2</strong>: The connection to the other network nodes has been interrupted. There may be electromagnetic or radio frequency interference on the power line. In this case, put the devolo Magic adapters closer to each other or try to shut off the source of interference.</td>
<td>Can be disabled</td>
</tr>
<tr>
<td>4</td>
<td>Red and white LED</td>
<td>Flashes at intervals of <strong>0.1 sec. red/2 sec. white</strong></td>
<td>Data transmission rate not in optimum range ** Can be disabled</td>
</tr>
<tr>
<td>5</td>
<td>White LED</td>
<td><strong>Status 1</strong>: Flashes at intervals of <strong>0.5 sec.</strong> <strong>Status 2</strong>: Flashes at intervals of <strong>1 sec.</strong></td>
<td><strong>Status 1</strong>: This devolo Magic adapter is in pairing mode and the system is searching for new devolo Magic adapters. <strong>Status 2</strong>: Someone has triggered the &quot;Identify device&quot; function on the web interface or in the devolo app. This function identifies the devolo Magic adapter being sought.</td>
</tr>
</tbody>
</table>
15 Introduction

devolo Magic 2 LAN

* Information about the web interface can be found in Chapter 4 Configuration.

** Information on improving the transmission rate can be found in Chapter 5.2 Bandwidth optimization.

*** A devolo Magic adapter switches to standby mode after approximately 10 minutes if no active network device (e.g. computer) is connected to the network interface. In this mode, the devolo Magic adapter cannot be accessed over the electrical wiring. As soon as the network device (e.g. computer) connected to the network interface is switched on again, your devolo Magic adapter can also be accessed over the electrical wiring again.

<table>
<thead>
<tr>
<th>LED</th>
<th>Flashing behaviour</th>
<th>Meaning</th>
<th>LED status display (web interface*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>White LED</td>
<td>Lights up steady</td>
<td>The devolo Magic connection does not have any issues and the devolo Magic adapter is ready to operate.</td>
</tr>
<tr>
<td>7</td>
<td>White LED</td>
<td>Flashes at intervals of 0.1 sec. on / 5 sec. off</td>
<td>The devolo Magic adapter is in standby mode.***</td>
</tr>
<tr>
<td>8</td>
<td>Red and white LED</td>
<td>Flashes at intervals of 0.5 sec. red / 0.5 sec. white</td>
<td>The devolo Magic adapter is carrying out a firmware update.</td>
</tr>
</tbody>
</table>

* Check whether the adapter is connected to the mains supply correctly and whether the pairing operation has been carried out successfully. For more information about this, refer to 3.3 Connecting the devolo Magic 2 LAN.

2.3.2 Network connection
You can use the network connection on the devolo Magic adapter to connect it to a PC or television using a standard network cable.

2.3.3 Integrated electrical socket
Always use the integrated electrical socket on the devolo Magic adapter when connecting other consumers to the mains supply.
In particular, electronic devices with mains adapter can negatively affect PLC performance.

The integrated mains filter in the devolo Magic adapter filters any such external interference and reduces any impairment of PLC performance.
3 Initial use

This chapter tells you everything you need to know to set up and use your devolo Magic 2 LAN. We describe how to connect the adapter and briefly describe the devolo software.

3.1 Package contents

Please ensure that the delivery is complete before beginning with the installation of your devolo Magic 2 LAN:

- **Starter Kit:**
  - Two devolo Magic 2 LAN
  - Two network cables
  - Hard copy of installation guide
  - Hard copy security flyer
  - CE declaration

Or

- **Extension:**
  - devolo Magic 2 LAN
  - Network cable
  - Hard copy of installation guide
  - Hard copy security flyer
  - CE declaration

devolo AG reserves the right to change the package contents without prior notice.

3.2 System requirements

- **Operating systems supported by devolo Cockpit from:**
  - Windows 7 (32-bit/64-bit),
  - Ubuntu 13.10 (32-bit/64-bit),
  - Mac (OS X 10.9)

- **Network connection**

  Please note that your computer or other device must have a network card or network adapter with a network interface.

  To set up a devolo Magic network, you need at least two devolo Magic adapters.
3.3 Connecting the devolo Magic 2 LAN

CAUTION! Damage to the device caused by ambient conditions
Only use device indoors in dry conditions

In the following sections we describe how to connect the devolo Magic 2 LAN and integrate it into a network. We clarify the exact procedures based on potential network scenarios.

For the permitted voltage range for operating the device and the power consumption, refer to the type plate on the rear of the device. For additional technical information on our products, refer to the product area at www.devolo.com.

3.3.1 Starter Kit — Automatic set-up for a new devolo Magic network

① Connect one devolo Magic 2 LAN to your Internet access device's network connection (e.g. your Internet router).

② Connect the other devolo Magic 2 LAN to the network connection of your computer or another network device using a network cable.

CAUTION! Tripping hazard
Lay the network cable in a barrier-free manner and ensure that the electrical socket and the connected network devices are easily accessible

③ Plug both devolo Magic adapters into available power sockets within 3 minutes. As soon as the LEDs on both adapters flash white at regular intervals of 0.5 sec., they are ready to operate and automatically start the process of establishing an encrypted connection to each other (see Chapter 2.3.1 Reading the indicator light).

If the LEDs on both devolo Magic adapters light up in white, then your devolo Magic network has been set up according to your individual specifications and is protected from unauthorised access.
3.3.2 Addition – Expanding an existing network by adding another devolo Magic adapter

Before you can use the devolo Magic 2 LAN in your devolo Magic network, first you have to connect it to your existing devolo Magic adapters as a network. This is accomplished by using a shared password.

1. Connect the devolo Magic 2 LAN to the network connection of your computer or another network device using a network cable.

2. Plug the devolo Magic 2 LAN into an available power socket. As soon as the LED flashes white at regular intervals of 0.5 seconds, the adapter is ready to operate but not yet integrated into a devolo Magic network (see Chapter 2.3.1 Reading the indicator light).

3. Within 3 minutes, press the PLC/reset button on a devolo Magic adapter in your existing devolo Magic network for approximately 1 sec.

   If the LEDs light up white on both devolo Magic adapters, the new adapter has been successfully integrated into your existing devolo Magic network.

   For each pairing operation, only one additional adapter can be added at a time.

3.3.3 Changing the network password

A network password can also be changed in the following ways:

- Using the **web interface** of the devolo Magic adapter (see Chapter 4.2.2 PLC)
- Or
- Using **devolo Cockpit** or the **devolo app**. For more information, refer to the following chapter.

3.4 Installation of devolo software

**Installing devolo Cockpit software**

devolo Cockpit finds all accessible devolo Magic adapters in your devolo Magic network, displays information about these devices and encrypts your devolo Magic network individually. You can use the software to navigate to the integrated web interface.

Operating systems supported by devolo Cockpit (Version 5.0 or later) from:

- Windows 7 (32-bit/64-bit) or later,
- Ubuntu 13.10 (32-bit/64-bit),
- Mac (OS X 10.9)

You can find the product manual, software and additional information on devolo Cockpit online at [www.devolo.com/cockpit](http://www.devolo.com/cockpit).

**Downloading the devolo App**

The devolo App is devolo’s **free app** also for checking and configuring WiFi, Magic and LAN connections for the devolo Magic.
adapter (using a smartphone or tablet). The smartphone or tablet connects to the devolo Magic adapter at home over WiFi.

1. Download the devolo App to your smartphone or tablet computer from the corresponding store.

2. The devolo App is placed in your smartphone’s or tablet’s app list as usual. Tapping on the devolo App icon brings you to the start menu.

You can find more information about the devolo App online at www.devolo.com/devolo-app.

3.5 Removing the devolo Magic adapter from a network

To remove a devolo Magic adapter from your network and successfully restore its entire configuration to the factory default settings, press the PLC/reset button longer than 10 seconds. Wait until the LED flashes white and then disconnect the adapter from the mains supply.

Keep in mind that all settings that have already been made will be lost!

To integrate the mains supply into another network, proceed as described in Chapter 3.3.2 Addition – Expanding an existing network by adding another devolo Magic adapter.
4 Configuration

The devolo Magic2 LAN has a built-in web interface that can be called up using a standard web browser. Here, you can read out device information and configure some settings for operating the devolo Magic adapter.

4.1 Calling up the built-in web interface

You can access the built-in web interface for the devolo Magic2 LAN in different ways:

- Using the devolo App on your smartphone or tablet, you can access the web interface of the devolo Magic adapter by going to the devolo App overview page and tapping on the gear/arrow.
  
  You can find more information on devolo App in Chapter 3.4 Installation of devolo software.

- Using the devolo Cockpit software under Start, you can access the web interface of the devolo Magic adapter by clicking on the tab for the device’s configuration page in devolo Magic2 LAN.

  Then the program determines the current IP address and starts the configuration in the web browser.

  You can find more information on devolo software in Chapter 3.4 Installation of devolo software.

4.2 Menu description

All menu functions are described in the corresponding interface as well as in the associated chapter in the manual. The sequence of the description in the manual follows the structure of the menu.

The 5 central web interface areas are displayed at the edge of the screen. Click a menu to switch directly to that menu:

Save

Confirm with OK to save the settings for the respective web interface area.

Default settings

Some fields contain default settings which ensure the greatest amount of compatibility and ease of use.

Default settings are identified with an * in drop-down menus. Default settings can of course be replaced with customised information.
### 4.2.1 Overview

In the **Overview** area, you will find information on hardware and software for the devolo Magic adapter and network details.

**PLC**

The table lists all available and connected devolo Magic adapters in your network along with displaying some device details.

- You can find more detailed information on the displayed device details in Chapter 4.2.2 PLC.

#### System

- **Name**: Device name
- **MT number**: Device type number
- **Serial number**: Device serial number
- **MAC address**: MAC address of the device

#### Software information

- **FW version**: Firmware version of the device
- **System uptime**: Operating time since the last restart

#### LAN

- **LAN port 1**: Network connection; if a connection has been detected, the speed (10/100/1000 Mbps) and the mode (half/full duplex) are specified; otherwise, the status "unconnected" is specified.
- **DHCP**: Display indicating whether DHCP is switched on or switched off
- **IPv4 address**: IPv4 address in use

---

**Fig. 4: Overview**

<table>
<thead>
<tr>
<th>Device ID</th>
<th>MAC Address</th>
<th>Transmit (Mbps)</th>
<th>Receive (Mbps)</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20:50:20:40:86:42</td>
<td>1298</td>
<td>1098</td>
<td>Odnepl Master</td>
</tr>
<tr>
<td>2</td>
<td>50:65:20:40:86:69</td>
<td>533</td>
<td>374</td>
<td>Real Point</td>
</tr>
<tr>
<td>3</td>
<td>20:50:20:40:86:12</td>
<td>--</td>
<td>--</td>
<td>Real Point</td>
</tr>
<tr>
<td>4</td>
<td>50:65:20:40:86:11</td>
<td>563</td>
<td>491</td>
<td>Real Point</td>
</tr>
</tbody>
</table>

---
23 Configuration

IPv4 netmask: IPv4 network mask in use
IPv4 gateway: IPv4 gateway in use
DNSv4: DNSv4 server in use
IPv6 link-local address: Link-local address in use
IPv6 SLAAC address: SLAAC address in use
DNSv6: DNSv6 server in use

You can find more detailed information on the displayed network details in Chapter 4.2.3 LAN.

4.2.2 PLC

In the PLC area, you will find functions and information on the topic of Powerline and adapter pairing.

---

Fig. 5 PLC
In order to use a new devolo Magic2 LAN in your devolo Magic network, first you have to connect it to your existing devolo Magic adapters devices as a network. This is accomplished by using a shared password. This can be assigned in different ways:

- Using devolo Cockpit or the devolo app (see Chapter 3.4 Installation of devolo software),
- Only using the PLC/reset button (see Chapter 2.3 Pairing and 3.3 Connecting the devolo Magic 1 LAN)
- Using the web interface, in the PLC menu; as described below:

### Pairing – Using physical button and on-screen button

1. First, press the PLC/reset button on a devolo Magic adapter in your existing network.
2. Then, click PAIR to start the pairing operation. This may take some time.

As soon as the new devolo Magic adapter is integrated into your existing network, it appears in a list of available and established connections (see Chapter PLC connections).

### Pairing – Using custom password

You can also assign your network a custom PLC password you pick yourself. Enter this password for each devolo Magic adapter in the PLC password field and confirm your entry with OK.

Note that the custom password is not assigned to the whole PLC network automatically. Instead, you must assign it separately to each of your devolo Magic adapters.

### Unpairing – Resetting or removing an adapter from a network

1. To remove a devolo Magic adapter from your devolo Magic network, click Unpair.
2. Wait until the LED flashes red and then disconnect the devolo Magic adapter from the mains supply.

### Advanced settings

You will find the following options in the advanced settings:

- **PLC domain name**: Network name
- **Force node type**:
  - Domain master
  - Automatic*: Recommended default setting
  - Endpoint
- **Profiles**:
  - Default mode*: Recommended default setting
  - Compatibility mode: Compatibility mode is a special mode of the devolo Magic Powerline adapter, which resolves rare connection issues which can result from interaction with other technologies such as DSL. This mode reduces the transmission rate of the Powerline adapter.

---

devolo Magic 2 LAN
Confirm your settings with **OK**.

**PLC connections**

The table lists all available and connected devolo Magic adapters for your network along with displaying the following details:

- **Device ID**: Device ID (number) of the respective devolo Magic adapter in the devolo Magic network
- **MAC address**: MAC address of the respective devolo Magic adapter
- **Transmit (Mbps)**: Data transmission rate
- **Receive (Mbps)**: Data reception rate
- **Role**: Role of the respective devolo Magic adapter on the network

* indicates the local devolo Magic adapter

**4.2.3 LAN**

You make changes to the network settings in the **LAN** area.
You can access the web interface for the devolo Magic2 LAN using its current IP address. This may be an IPv4 and/or IPv6 address, which is either entered manually as a static address or automatically retrieved from a DHCP server.

**IPv4 configuration**

In the factory default settings, only the **DHCP enabled** option for **IPv4** is enabled. This means that the IPv4 address is retrieved automatically from a DHCP server. The currently assigned network data is visible (greyed out).

If a DHCP server is already present on the network for giving out IP addresses (e.g. your Internet router), you should enable the **DHCP enabled** option so that the devolo Magic2 LAN automatically receives an address from it.

If you want to assign a static IP address, make entries accordingly for the **IPv4 address**, **IPv4 netmask**, **Default gateway** and **DNS** fields.

Confirm your settings with **OK**.

Then, restart the devolo Magic adapter (see Chapter **4.2.5 Reset**) to ensure that your changes take effect.

**IPv6 configuration**

If you want automatic IP address assignment and there is already a DHCP server present on the network for giving out IP addresses (e.g. your Internet router), enable the **DHCPv6 enabled** option to ensure that the devolo Magic2 LAN automatically receives an address from this device.

If you want to assign a static IP address, make entries accordingly for the **IPv6 address**, **IPv6 prefix**, **Default gateway** and **DNS** fields.

**IPv6 link-local address**: In the case of IPv6, the devolo Magic adapter always has a fixed address which can be used to access it within the connected Ethernet or PLC network segment. This link-local address is derived from the Ethernet MAC address.

**IPv6 link-local prefix**: Corresponding format prefix for link-local addresses

**IPv6 SLAAC address**: Using the SLAAC method (**Stateless Address Autoconfiguration**), the devolo Magic2 LAN automatically generates an IP address by itself.

**IPv6 SLAAC prefix**: Corresponding format prefix for SLAAC addresses

Confirm your settings with **OK**.

Then, restart the devolo Magic adapter (see Chapter **4.2.5 Reset**) to ensure that your changes take effect.

**4.2.4 System**

In the **System** area, you can configure the settings for security and other devolo Magic adapter device functions.
**Identify device**

The devolo Magic adapter can be located using the **Identify device** function. Click **Identify** to make the white LED for the corresponding adapter flash for 2 minutes to make it easier to identify by sight.

**LEDs**

Enable the **LEDs reduced** option if the LEDs on the devolo Magic adapter are intended to be switched off for normal operation. An error status is indicated by corresponding flashing behaviour regardless of this setting (see Chapter 2.3.1 **Reading the indicator light**).

**Power saving**

If this option is enabled, the devolo Magic2 LAN automatically switches to PowerSave mode and cuts energy consumption during low data traffic.

PowerSave mode is enabled in the devolo Magic adapter’s factory default settings.

**Standby**

If this option is enabled, the devolo Magic2 LAN switches to standby mode automatically after approximately 10 minutes if no Ethernet connection is active, meaning that there is no active network device (e.g. computer) connected to the network interface.

In this mode, the devolo Magic adapter is not accessible over the Powerline network. As soon as the network device (e.g. comput-
er) connected to the network interface is switched on again, your devolo Magic adapter can also be accessed over the electrical wiring again.

Standby mode is enabled in the devolo Magic adapter's factory default settings.

For information on the LED behaviour of the devolo Magic adapter in standby mode, refer to Chapter 2.3.1 Reading the indicator light.

Password
You can set a login password for access to the web interface.

By default, the built-in web interface of the devolo Magic2 LAN is not protected by a password. We recommend assigning a password when the installation of the devolo Magic2 LAN is complete to protect it against tampering by third parties.

To do so, enter the desired new password twice. Now the web interface is protected against unauthorised access with your custom password!

Firmware upgrade
The firmware of the devolo Magic2 LAN includes the software for operating the device. If necessary, devolo offers new versions on the Internet as a file download, for example to modify existing functions.

To bring the firmware up to the latest version, first go to the devolo website, www.devolo.com, and download the appropriate file for the devolo Magic2 LAN to your computer.

Then, navigate to the System > Firmware upgrade area. Click Choose... and select the downloaded file.

Confirm the update procedure with OK. After a successful update, the devolo Magic2 LAN restarts automatically.

Ensure that the update procedure is not interrupted.

4.2.5 Reset
Here, restart the devolo Magic adapter and/or restore it to the factory default settings.

Restart device
To restart a devolo Magic adapter, click Restart.
29 Configuration

Factory reset

(1) To remove a devolo Magic adapter from your devolo Magic network and successfully restore its entire configuration to the factory default settings, click **Reset**.

(2) Wait until the LED flashes white and then disconnect the devolo Magic adapter from the mains supply.

*Keep in mind that all settings that have already been made will be lost!*
5 Appendix

5.1 Technical specifications

<table>
<thead>
<tr>
<th>Security</th>
<th>128 Bit AES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device port</td>
<td>1x RJ45 (Gigabit Ethernet port)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Maximum: 4.8 W</td>
</tr>
<tr>
<td></td>
<td>Typical: 2.8 W</td>
</tr>
<tr>
<td></td>
<td>Stand-by: 0.7 W</td>
</tr>
<tr>
<td>Power supply</td>
<td>Internal</td>
</tr>
<tr>
<td></td>
<td>196-250 V AC</td>
</tr>
<tr>
<td></td>
<td>50 Hz</td>
</tr>
<tr>
<td>Temperature (Storage/Operating)</td>
<td>-25°C to 70 °C / 0°C to 40°C</td>
</tr>
<tr>
<td>Dimensions (in mm, without plug)</td>
<td>133x66x42 (HxWxD)</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td>10-90% Humidity, non-condensing</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE</td>
</tr>
</tbody>
</table>

5.2 Bandwidth optimization

To significantly improve the transmission capacity of the network, we recommend that you comply with the following “connection rules”:

- Plug the devolo Magic 2 LAN directly into a wall socket. Avoid using power strips. This may impair the transmission of the PLC signals.
- If there are several sockets in the wall directly next to each other, they behave like a power strip. Individual sockets are optimal.
5.3 Disposal of old devices

To be used in the countries of the European Union and other European countries with a separate collecting system:

The icon with crossed-out wastebasket on the device means that this product is an electrical or electronic device that falls within the scope of application of the European Community WEEE Directive. These types of devices may no longer be disposed of with household waste. Rather they can be given to a municipal collection point free of charge. Contact your municipal government to find out the address and hours of the nearest collection point.

5.4 Warranty conditions

If your devolo device is found to be defective during initial installation or within the warranty period, please contact the vendor who sold you the product. The vendor will take care of the repair or warranty claim for you. The complete warranty conditions can be found at www.devolo.com/warranty.
Index

A
Adapter equipment 11
C
CE 8
CE declaration 8
Changing/assigning the network password 12, 19
D
devolo app 19
devolo Cockpit 19
devolo Magic 10
devolo software 19
DHCP server 26
Disposal of old devices 31
E
Expanding an existing devolo Magic network 12
F
Factory default settings 12, 20, 29
Factory reset 12, 29
I
Integrated electrical socket 15
Intended use 7
IP address 26
IPv4 26
IPv6 26
L
LAN (network connection) 15
LED status display 11, 13
N
Network connection 15
P
Package contents 17
Pairing 12
PLC 10, 11
Powerline 10
PowerSave 27
PowerSave mode 27
Product name concept 10
R
Reset 12, 20, 29
Resetting a devolo Magic adapter 12
Restart 28
S
Safety notes 8
Starting up a new devolo Magic network 12