Contents:
This guide will explain how to set up the Internet connection of your eWON for the Talk2M connection.
Table of Contents

1. Hardware and software requirements.................................................................................................................. 3
   Hardware requirements................................................................................................................................. 3
   Software requirements................................................................................................................................. 3

2. eWON IP address configuration.......................................................................................................................... 4

3. Internet connection on modem............................................................................................................................ 6
   Modem GSM/GPRS/Edge.................................................................................................................................. 6
      Modem configuration................................................................................................................................. 6
      Setup outgoing modem connection.......................................................................................................... 7
      Define the Internet Connection type....................................................................................................... 8
   Modem PSTN...................................................................................................................................................... 9
      Modem configuration................................................................................................................................. 9
      Setup outgoing modem connection.......................................................................................................... 9
      Define the Internet Connection type....................................................................................................... 11

4. Internet connection on second Ethernet Interface:............................................................................................... 12
   Ethernet WAN configuration............................................................................................................................ 12
   Define the Internet Connection type............................................................................................................... 12

5. eWON Networking security .................................................................................................................................. 14

6. Talk2M configuration............................................................................................................................................. 15

7. How to reach the devices behind the eWON........................................................................................................... 16
   Ethernet device configuration........................................................................................................................... 16
   Talk2M configuration....................................................................................................................................... 16

8. How to «wake up» your eWON............................................................................................................................. 17
   eWON with GSM/GPRS/Edge modem.............................................................................................................. 17
      Wake up..................................................................................................................................................... 17
      Send offline................................................................................................................................................. 17
   eWON with PSTN modem............................................................................................................................... 18
      Wake up..................................................................................................................................................... 18
      Send offline................................................................................................................................................. 18
   eWON with second Ethernet Interface............................................................................................................ 19

Revisions

<table>
<thead>
<tr>
<th>Revision Level</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>2008-02-25</td>
<td>First release.</td>
</tr>
</tbody>
</table>
Hardware and software requirements

Hardware requirements

In order to follow this guide you'll need:

- 1 eWON with VPN capabilities (for example: eWON 2101, eWON 4101 or eWON 2005/4005)
- 1 PC with access to Internet

Software requirements

**eWON configuration software:**

The eWON is configured through its embedded web server. So all you need is a standard Web Browser software like Internet Explorer\(^i\) or Firefox\(^ii\).

Additionally we suggest you to download the eBuddy utility on our website: [http://www.ewon.biz](http://www.ewon.biz) (Support/Download Software).

This utility allows to list all the eWONs on your network and to change the default IP address of an eWON to match your LAN IP address range. With eBuddy you can also easily backup/restore your configuration or upgrade the firmware of your eWON (if required).

**Talk2M connection software:**

To realize the Talk2M connection you must install the eCatcher software on your PC.

The software can be downloaded on: [http://www.talk2m.com](http://www.talk2m.com)

On this web site you'll also find explanations on how to create your Talk2M account and how to add a new eWON to your account.
eWON IP address configuration

Every eWON™ is shipped with the pre-configured IP address 10.0.0.53 and adm/adm as User Name/Password.

Probably the network settings of your PC doesn't allow you to connect to the pre-configured IP address.

You can find on our website an utility called «eBuddy» that will allow you to change the IP address of the eWON even if your PC is not on the same IP address range.

eBuddy: [http://www.ewon.biz](http://www.ewon.biz) (Support/Download Software)

To change the IP address of your eWON using eBuddy, follow the steps below:

- Launch the eBuddy application (eBuddy.exe)

- Click on the «Set IP address» link
2. eWON IP address configuration

- Enter the eWON serial number in the **Serial Number** field if you know it, or click on the **Browse** button. In this case, the dialog box «Select an eWON» will appear showing you all the eWON existing on your Network.

![Image](image-url)

**NOTE** You can find the serial number on the identification label placed at the left hand side of the eWON housing.

- Once the Serial Number entered, click **Next**.
- Set the new **IP Address** and the **Subnet Mask**.
- Click on **Next** to launch the update and wait for the eWON to reboot:

  ![Image](image-url)

- When done, click on **Finish** to exit from the IP Address Wizard.
Internet connection on modem

Modem GSM/GPRS/Edge

Modem configuration

Configure the modem

![Configuration → System Setup → Communication → Interfaces → Modem]

Leave the Modem Init String unchanged.

Enter the PIN code of your SIM card.

If you want to use GPRS or Edge, enable the «PDP context definition» and enter the «Access Point Name» (APN) for your GPRS or Edge connection.

The APN specifies to which network your mobile will be connected. So the information of which APN to use should be provided by the Service Provider of your SIM card.

NOTE If your SIM card has an empty PIN code then enter 0000 in the «GSM PIN Code» field. If you leave this field empty your GSM connection will not work.
The «Signal Level», «Network» and «Operator» fields indicate the status of your GSM communication.
The signal level must be between 20 and 31 (signal level lower than 18 could work, but the communications will be slower or even interrupted).

**IMPORTANT** The PIN code is only checked when eWON starts up. So if you changed the PIN code, you'll have to reboot he eWON to take the changes into account.

### Setup outgoing modem connection

**Configuration → System Setup → Communication → Network connections → Modem → Outgoing → Global**

Change if needed the «Maximum connection Time» settings:
By default the «Max outgoing call duration» is set to 60 minutes. So the eWON will drop the Talk2M connection after 1 hour.
The «Idle time before hanging» up is not useful for an Talk2M connection because a life bit is periodically exchanged to avoid connection interruption due to idle times.
3. Internet connection on modem

The Call budget management allows you to manage the costs of the outgoing connection. By default eWON is configured to allow 24 hours of outgoing connection during one week (168 hours).

Put 0 into the «Allocated budget» to deactivate the call budget management.

```
Configuration → System Setup → Communication → Network connections → Modem → Outgoing → Server1
```

For the connection type choose «GPRS».
Leave the «User name» and «Password» fields empty if not asked specially by your GPRS connection provider.

**Define the Internet Connection type**

```
Configuration → System Setup → Communication → Networking Config → Internet Connection
```

Set the Network connection to «Modem Connection».
3. Internet connection on modem

Check the «Maintain connection» box only if you want that your eWON stays always connected on Internet.

**NOTE**
The «Maintain connection» will only reactivate the Internet connection once the Internet connection was closed. The duration of the Internet connection must still be configured using the «Maximum connection Time» fields of the PPP outgoing connection (see page 7).

---

**Modem PSTN**

*Modem configuration*

Configure the modem

```
Configuration → System Setup → Communication → Interfaces → Modem
```

Leave the Modem Init String unchanged.

Only adapt the string if the modem needs special settings to comply to your local telephone system.

*Setup outgoing modem connection*

```
Configuration → System Setup → Communication → Network connections → Modem → Outgoing → Global
```
3. Internet connection on modem

Enable the PPP outgoing Connection.

Change if needed the «Maximum connection Time» settings:
By default the «Max outgoing call duration» is set to 60 minutes. So the eWON will drop the Talk2M connection after 1 hour.

The «Idle time before handing up» is not useful for an Talk2M connection because a life bit is periodically exchanged to avoid connection interruption due to idle times.

The Call budget management allows you to manage the costs of the outgoing connection. By default eWON is configured to allow 24 hours of outgoing connection during one week (168 hours).

Put 0 into the «Allocated budget» to deactivate the call budget management.

Configuration → System Setup → Communication → Network connections → Modem → Outgoing → Server1
For the connection type choose «Remote access connection» and enter the Server phone number, user name and password of your ISP provider (Internet Service provider).

**NOTE**
A coma «,» can be used in the phone number to insert a pause. This is most often essential if you have to go through a telephone switch.

**Define the Internet Connection type**

Set the Network connection to «Modem Connection».
Don't check the «Maintain connection» box, otherwise eWON will stay connected every time on Internet.
Internet connection on second Ethernet Interface:

The eWON 2005 and 4005 series dispose of a second Ethernet Interface. On these eWON types it is possible to configure one Ethernet Interface to connect to Internet using a DSL Router or the Internet connection of the client network.

**Ethernet WAN configuration**

**Configuration → System Setup → Communication → Network Connections → Ethernet → Eth2 - WAN**

Enter the eWON WAN IP address and Subnet MASK.

In the «Default gateway» field enter the IP address of the DSL router or the Internet access gateway of the client network.

The DNS IP address can also be specified here but is not required for Talk2M connections.

**IMPORTANT** IP address changes are only taken into account after a restart of the eWON.

So reboot your eWON after changing IP address and Gateway.

**Define the Internet Connection type**

**Configuration → System Setup → Communication → Networking Config → Internet Connection**
4. Internet connection on second Ethernet Interface:

Set the Network connection to «Ethernet WAN connection».
Check the «Maintain connection» box, otherwise the WAN interface will not be activated.
Set the WAN Protection level to «Discard all traffic excepted VPN and initiated traffic».

With this setting your eWON will only be reachable from the Internet using the VPN connection. No direct Internet access will be allowed on the eWON WAN interface.
Talk2M configuration

Once your eWON configured for Internet connection you can use the Talk2m wizard to configure your eWON for the Talk2M connection.

To launch the Talk2M wizard click on the Wizard icon on the right outer side in the eWON configuration menu bar:

In the wizard page choose then the Talk2M wizard:

Follow the different steps of the wizard to finish the Talk2M configuration of your eWON.

If you have questions about the use of the Talk2M wizard or the use of Talk2M please refer to the Talk2M website: http://www.talk2m.com or use the Online Help in the eCatcher software.
How to reach the devices behind the eWON

Ethernet device configuration

Every Ethernet device on the remote network must have as default gateway the eWON IP address. Otherwise the equipment can not be reached through the VPN tunnel of the Talk2M connection.

For the eWON 2005/4005 series the eWON LAN IP address must be specified as gateway in the remote device (not the eWON WAN IP address).

Talk2M configuration

The Remote network must be specified in the eWON configuration of your Talk2m account.

In Talk2M display the details of your eWON and open the «Edit» page.

In the «eWON LAN IP» and «Network Mask» fields enter the information concerning the remote network.

When you connect to your eWON using Talk2M a route will then be automatically created which will route the specified Remote Network addresses through the VPN tunnel (IP range 192.168.0.# in our example).
How to «wake up» your eWON

Probably you don’t want that your eWON stays all the time connected to Talk2M. So you need a way to «wake up» the eWON in order to trigger the VPN connection to the Talk2M server.

This can be done on several ways depending on the eWON modem type.

**eWON with GSM/GPRS/Edge modem**

*Wake up*

The «wake up» of an eWON with GSM modem can be done by SMS.

You can send out the «wake up» SMS directly from your Talk2M account using the «Wake-up SMS» button in front of the eWON on which you want to connect.

**IMPORTANT**

To be able to receive SMS on the eWON, the «PPP Incoming Connection» must be enabled.

The «PPP Incoming Connection» is enabled in the factory default settings. So normally you don’t need to change anything.

The «PPP Incoming Connection» settings can be changed on following configuration page: Configuration/ System Setup/ Communication/ Network connections/ Modem /Incoming

*Send offline*

To disconnect your eWON from the Talk2M Server you can use the «Send offline» button. This button appears in front of your eWON in the Talk2M window once eWON has connected to the Talk2M Server.
eWON with PSTN modem

Wake up

To «wake up» an eWON with PSTN modem the callback feature of the eWON can be used.

To do this, the Callback feature has to be activated in the eWON.

Enable the Callback feature.

By default, eWON is configured for Callback mode «On Ring».
In this mode eWON will trigger the callback when the phone rings between 5 and 15 times.
The number of rings between which the eWON will trigger the callback can be defined using the «Number of Rings» and the «Plus number of Rings then On Hook» parameters.

Send offline

To disconnect your eWON from the Talk2M Server you can use the «Send offline» button. This button appears in front of your eWON in the Talk2M window once eWON has connected to the Talk2M Server.
eWON with second Ethernet Interface

Due to the permanent DSL connection the eWON will always be seen «online» in your Talk2M account.
So you don't need to «Wake up» the eWON nor to send the eWON offline.
Note concerning the warranty and the rights of ownership:

The information contained in this document is subject to modification without notice. The vendor and the authors of this manual are not liable for the errors it may contain, nor for their eventual consequences.

No liability or warranty, explicit or implicit, is made concerning quality, the accuracy and the correctness of the information contained in this document. In no case the manufacturer’s responsibility could be called for direct, indirect, accidental or other damage occurring from any defect of the product or errors coming from this document.

The product names are mentioned in this manual for information purposes only. The trade marks and the product names or marks contained in this document are the property of their respective owners.

This document contains materials protected by the International Copyright Laws. All reproduction rights are reserved. No part of this handbook can be reproduced, transmitted or copied in any way without written consent from the manufacturer and/or the authors of this handbook.

eWON is a ACT’L sa trademark. Subject to change without notice.