

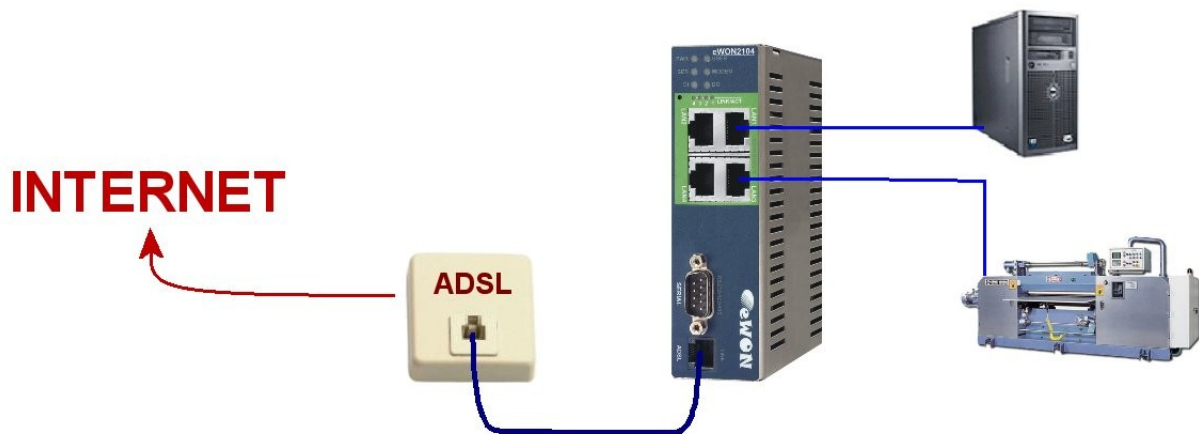
eWON Application User Guide

AUG 012 / Rev 1.0



You Select, We Connect

eWONx104 ADSL connection



Content

eWON2104 and eWON4104 have an ADSL modem built-in. This guide describes all the eWON ADSL features. How to configure and monitor the ADSL connection.

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Hardware and software requirements

Hardware requirements

- eWON2104 or eWON4104
- An ADSL line

eWON Firmware Version

eWON firmware version 5.4S5 or higher.

A simple way to realize the eWON firmware upgrade is to use eBuddy, the eWON software companion (<http://support.ewon.biz>).

Quick ADSL connection

Step 1: Connect the eWON to the ADSL/Phone plug



Step 2: Configure your eWON

Open your Internet browser and enter the IP address of your eWON. By default, the address is 10.0.0.53 (<http://10.0.0.53>) and the UserName/Password is adm/adm.

Go to the Wizard menu.



Choose the "Configure Internet Connection" button



Select "ADSL" Connection Internet connection

ADSL

Select the WAN interface you will use for Internet access.

Initialize configuration first (recommended)

Uncheck only if you have parameters configured that you want to keep. This is an advanced option.

Enter the ADSL configuration parameters

ADSL connection

Connection type: PPPoE or PPPoA

User name:

Password:

PPP Mode: PPPoE LLC

VPI:

VCI:

2. Quick ADSL connection

Select "Maintain Connection"

Configure "Go Online" trigger

Triggered by **outgoing** actions

eWON will establish the connection each time an internal action needs to connect to the Internet (eMail, FTP, NTP, etc.)

Maintain connection

eWON will establish the Internet connection each time it is broken down.

Now, the wizard will perform an online test.

Select the "Test online address"

Internet connection is configured

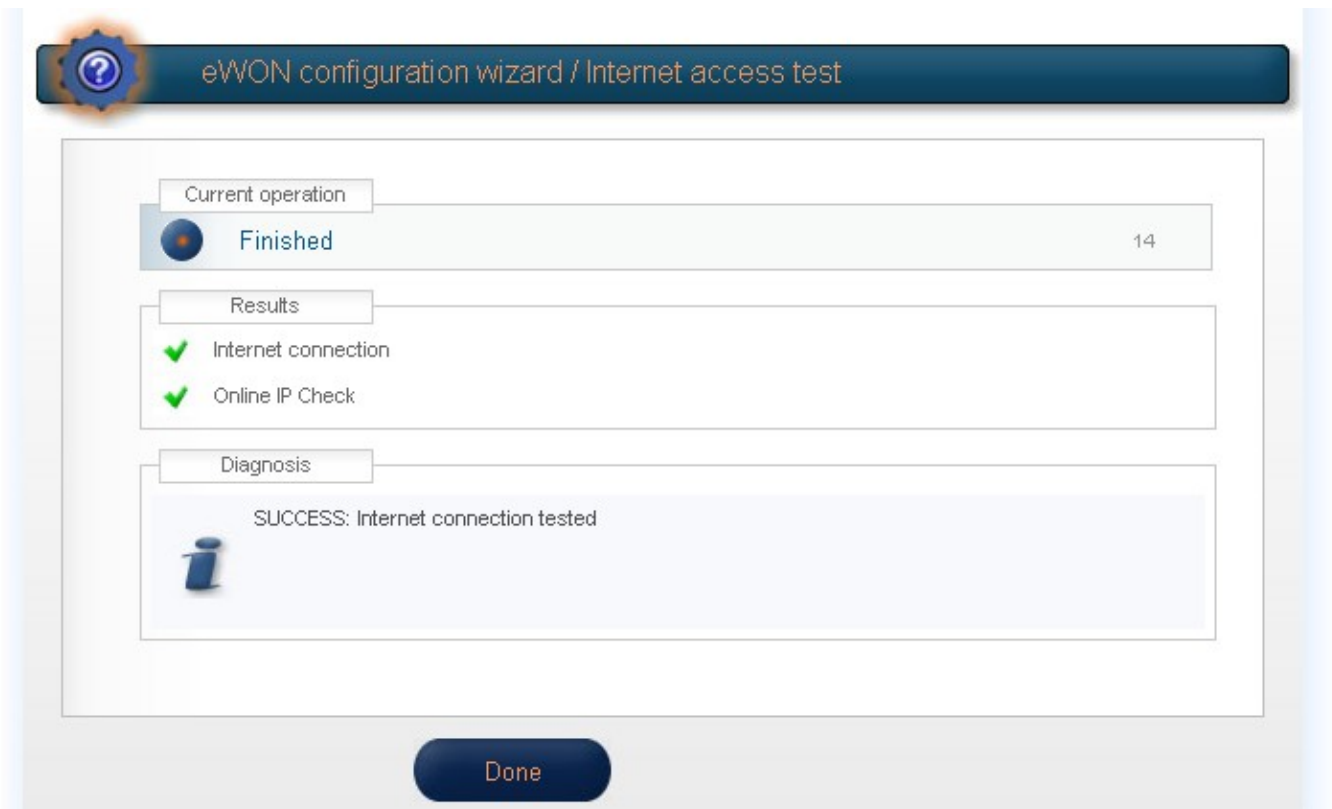
Click Next to start the **Internet connection test**:

Test online address.

If this checkbox is selected, eWON will perform an online IP check.

If you have configured a connection through proxy or on an intranet, do not select this test.

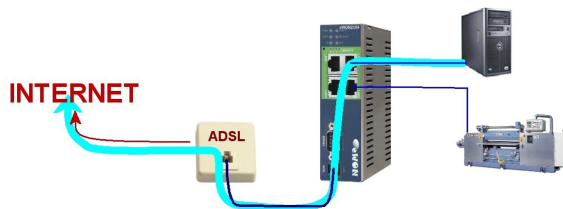
At the end of the test, you will have the following screen:



Now, your eWON is on the Internet.

Step 3: Set the eWON as Router

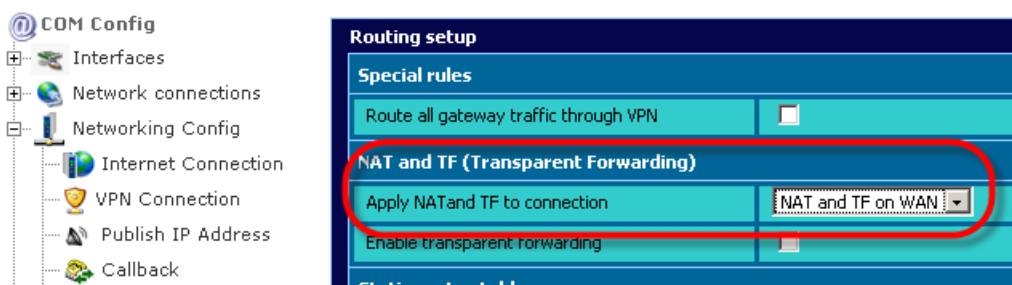
To allow devices connected on the LAN of the eWON to access the Internet, you must configure the eWON as Router.



Go to the Routing configuration page:

Configuration → System Setup → Communication → Networking Config → Routing

and set the NAT & TF to "NAT & TF on WAN".



Step 4: Set the parameters in your Devices

IMPORTANT



1. You must configure your devices to use the eWON as Gateway.
2. In your PC connection, do not forget that the eWON is NOT a DNS relay, you must enter your provider's DNS address(es) explicitly in the PC's ethernet interface configuration.

On a Windows-PC, you will find these 2 settings in:

Control Panel → Network Connections → Local Area Network → Properties → Internet Protocol(TCP/IP) → Properties

Now, your devices connected to the eWON-LAN are able to go to the Internet through your ADSL line

Security recommendations

As the ADSL connection is intended to be permanent, your eWON will be connected to the Internet all the time.

- Then, do not forget to change the default administrator account (adm/adm) to something less obvious.

Configuration → **Users setup**

- Also, use the security page of the eWON to close all access from the Internet.

Configuration → **System Setup** → **Communication** → **Networking Config**
→ **Security**

Networking security setup	
WAN Protection	
WAN Protection level	<input checked="" type="radio"/> Discard all traffic excepted VPN and initiated traffic (ex: EMail) <input type="radio"/> Discard all traffic excepted VPN and initiated traffic (ex: EMail) and ICMP (Ping) <input type="radio"/> Allow all traffic on WAN connection (no protection)
Transparent Forwarding	
Require authentication for Transparent Forwarding	<input checked="" type="checkbox"/>

These changes will be effective from next WAN connection

Update

When Protection Level is "Discard all", your eWON is not reachable from the Internet.

Only the eWON (and devices on LAN) can access the Internet.

To securely reach your eWON-ADSL, use a VPN tunnel (with Talk2M, eSync or eCatcher):

- use Talk2M, more info on <http://www.talk2m.com> .
- set the eWON to accept Incoming VPN connection (from eCatcher) see [AUG002.pdf](#) on <http://support.ewon.biz> .

Manual ADSL Configuration

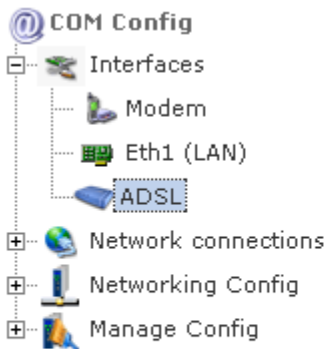
Step 1: Configure your eWON

The modem configuration is accessible through the following menus:

Configuration → System Setup → Communication → Interfaces → ADSL
Configuration → System Setup → Communication → Network Connections → ADSL

Most of the configuration will be done through the menu

Configuration → System Setup → Communication → Interfaces → ADSL



ADSL Interface

Connection Type:

User name:

Password:

PPP Mode:

VPI:

VCI:

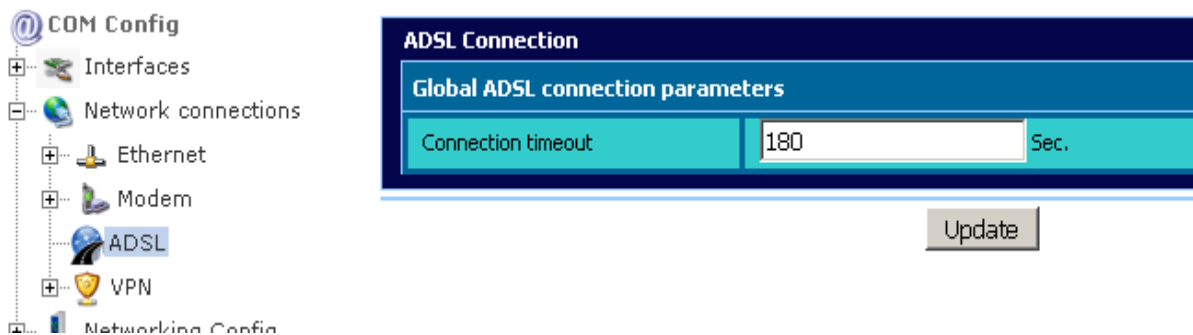
Update

Control	Description
Connection Type	Always “PPPoE or PPPoA” PPPoE: Point-to-Point Protocol over Ethernet PPPoA: Point-to-Point Protocol over ATM
User name	Provided by the operator with your ADSL account
Password	Provided by the operator with your ADSL account
PPP mode	Provided by the operator with your ADSL account. Choose between <ul style="list-style-type: none"> ● PPPoE LLC ● PPPoA VC-Mux ● PPPoA LLC
VPI	Virtual Path Identifier is provided by operator (default: 8)
VCI	Virtual Channel Identifier is provided by operator (default: 35)

4. Manual ADSL Configuration

The connection parameters are defined through:

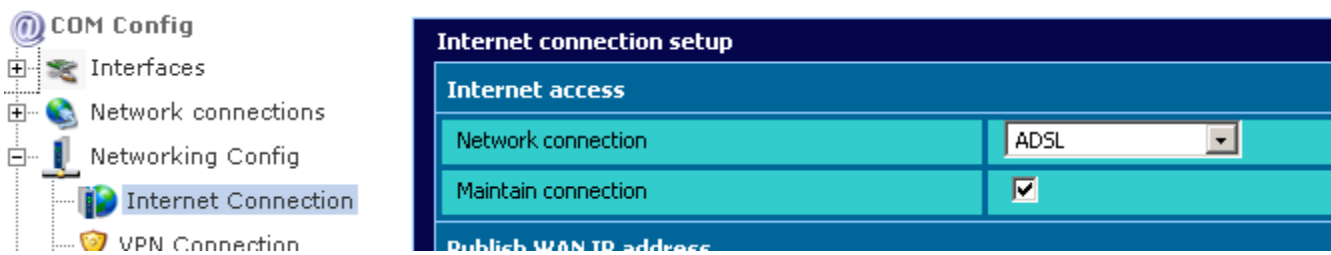
Configuration → System Setup → Communication → Network Connections → ADSL



Parameter	Description
Connection timeout	Maximum time the eWON will wait for the ADSL WAN to be established. After this time the connection will fail. If "Maintain connection" is selected, then the eWON will retry continuously.

Do not forget to set the "Internet Connection" on "ADSL".

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



IMPORTANT



See also Step 3: Set the eWON as Router and Step 4: Set the parameters in your Devices

Diagnosis

Different tools are provided to check the ADSL connection status and determine why it has failed.

Status windows

Accessible through

Diagnostic → Status → Status

This summary will indicate the current status of the ADSL Line and ADSL Connection.

<u>ADSL Line status</u>	Online
<u>ADSL WAN status</u>	Up
<u>ADSL Local IP</u>	81.240.182.166
<u>ADSL Remote IP</u>	81.240.182.1
<u>ADSL Primary DNS</u>	195.238.2.22
<u>ADSL Secondary DNS</u>	195.238.2.21

The ADSL Line status: as soon as the modem is connected to the ADSL line (phone line), it will try to negotiate an ADSL link, this is the low level link connection and does not provide any IP connectivity.

Even if you have NOT configured anything in the eWON, if the telephone line is connected and the system is powered, your ADSL Line should go "Online".

The ADSL WAN status: This is the actual ADSL IP connection, you must have a valid configuration and the ADSL WAN connection must be active for this status to be "Connected".

If your WAN is connected, the ADSL Local, Remote and DNS should be defined.

ADSL Log

If your ADSL does not work, you may have problems with your configuration. In that case, you can check the ADSL Log, this log is fetched from the modem itself and remains in 'English', it may contain information about an invalid VPI/VCI configuration or an incorrect username and password:

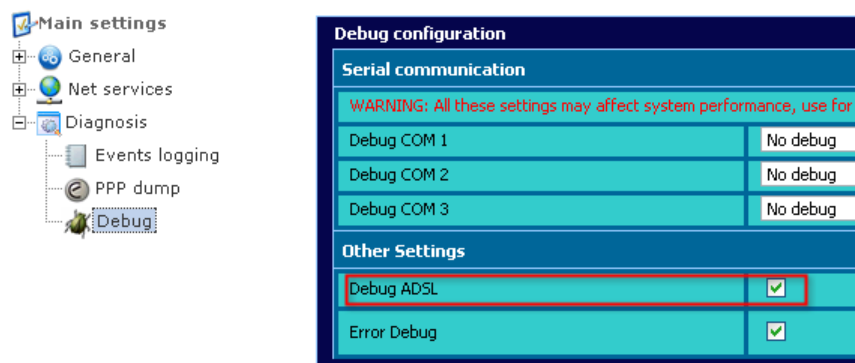
Event Log	Status	Scheduled Actions	Real Time Log	ADSL Log
Mon Jan 01 16:41:20	2001	MAJOR ALARM	Failed To Get IP Address	Interface - ppp
Mon Jan 01 16:41:20	2001	WARNING	PPP Interface Down	Interface - ppp-0
Mon Jan 01 16:41:20	2001	WARNING	PPP Authorization Failed	Interface - ppp-0
Mon Jan 01 16:41:07	2001	STATUS ALARM	PPPoE Up	Interface - ppp-0
Mon Jan 01 16:40:57	2001	STATUS ALARM	Bimap Nat Rule Created	Rule Id - 2 : Int
Mon Jan 01 16:40:57	2001	STATUS ALARM	IP Interface Created	Interface - ppp-0
Mon Jan 01 16:40:57	2001	STATUS ALARM	Non IP Interface Created	Interface - aal
Mon Jan 01 16:40:57	2001	STATUS ALARM	Non IP Interface Deleted	Interface - aal
Mon Jan 01 16:40:57	2001	STATUS ALARM	IP Interface Deleted	Interface - ppp-0
Mon Jan 01 16:40:57	2001	WARNING	ATM VC Down	Interface - aal5-1, PortId=7, Vpi
Mon Jan 01 16:40:57	2001	WARNING	PPPoE Down	Interface - ppp-0
Mon Jan 01 16:40:57	2001	STATUS ALARM	Bimap Nat Rule Deleted	Rule Id - 2 : Int

Debug ADSL

In case you are in real trouble with your ADSL, you can also enable the ADSL process debug option:

Configuration → System Setup → General → Diagnosis → Debug

Select the 'Debug ADSL' option.



As soon as the ADSL Debug option is enable, the ADSL process will log information in the 'Real Time Log'.

Event Log	Status	Scheduled Actions	Real Time Log
Real time log			
Source:	ADSL	Per Page:	30
<< Previous Page Next Page >>			
Time	Source	Event	
01/01/2001 16:42:34	ADSL	Read Log	
01/01/2001 16:41:07	ADSL	Enter state: ADSL_CONNECTING	
01/01/2001 16:41:07	ADSL	Current WAN State: Status=2, LocalIp=0.0.0.0, Rem DNS1=0.0.0.0, DNS2=0.0.0.0	
01/01/2001 16:41:06	ADSL	Current Dsl State: Oper=1, LastFail= 0x0, StartProg=	
01/01/2001 16:41:06	ADSL	Ethernet interface opened and default GW set.	
01/01/2001 16:40:57	ADSL	Open ethernet itf	

This information may help you determine where the ADSL connection process fails.

Modem informations

Accessible through

Main Menu → Diagnostic → Status → Info

This page provides information about the ADSL Modem hardware, firmware and serial number.

<u>ADSL Version info</u>	SW Ver:WUL-2.5.060322a, FW Ver:E37.09.48
<u>ADSL Serial number</u>	XG080507