

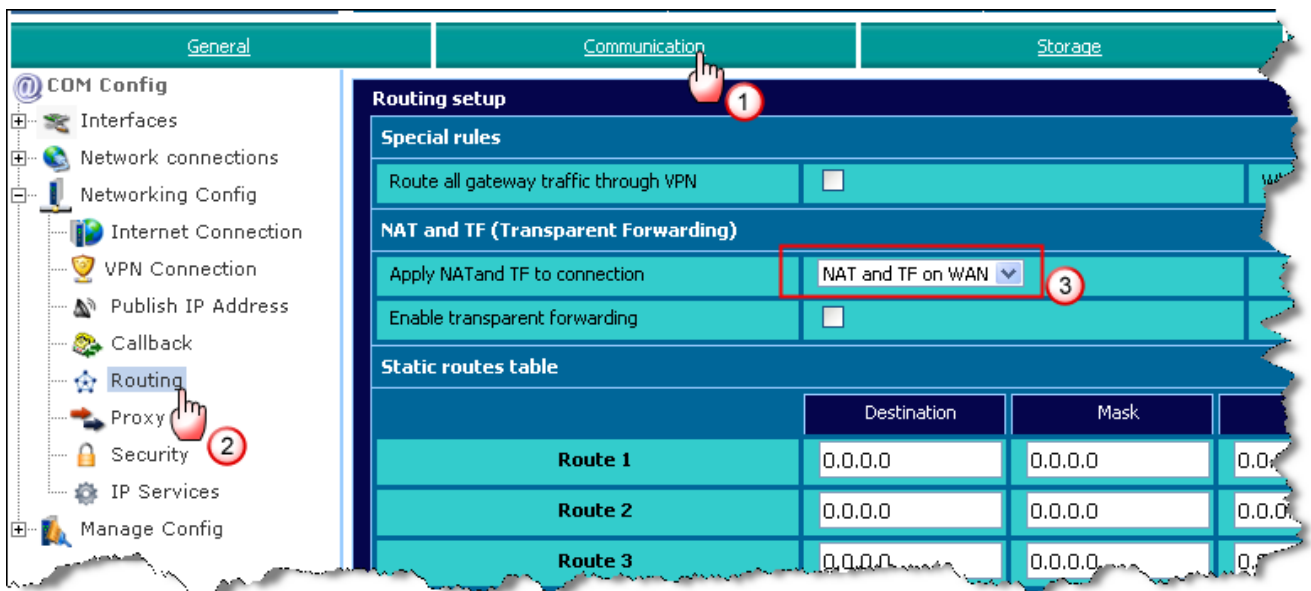
Configure an eWON 2005CD or 4005CD as a pure router

To use your eWON as a pure router you need to:

1. Configure the eWON as router
2. Activate the Internet connection
3. Fulfill routing rules

1. Configure the eWON as router

Under the menu SystemSetup->Communication->NetworkingConfig->Routing, activate the "NAT and TF on WAN".



The screenshot shows the eWON web interface with the following configuration details:

- General** | **Communication** | **Storage**
- COM Config**
 - Interfaces
 - Network connections
 - Networking Config
 - Internet Connection
 - VPN Connection
 - Publish IP Address
 - Callback
 - Routing** (2)
 - Proxy
 - Security
 - IP Services
 - Manage Config

- Routing setup** (1)
- Special rules**
 - Route all gateway traffic through VPN
- NAT and TF (Transparent Forwarding)**
 - Apply NAT and TF to connection: **NAT and TF on WAN** (3)
 - Enable transparent forwarding
- Static routes table**

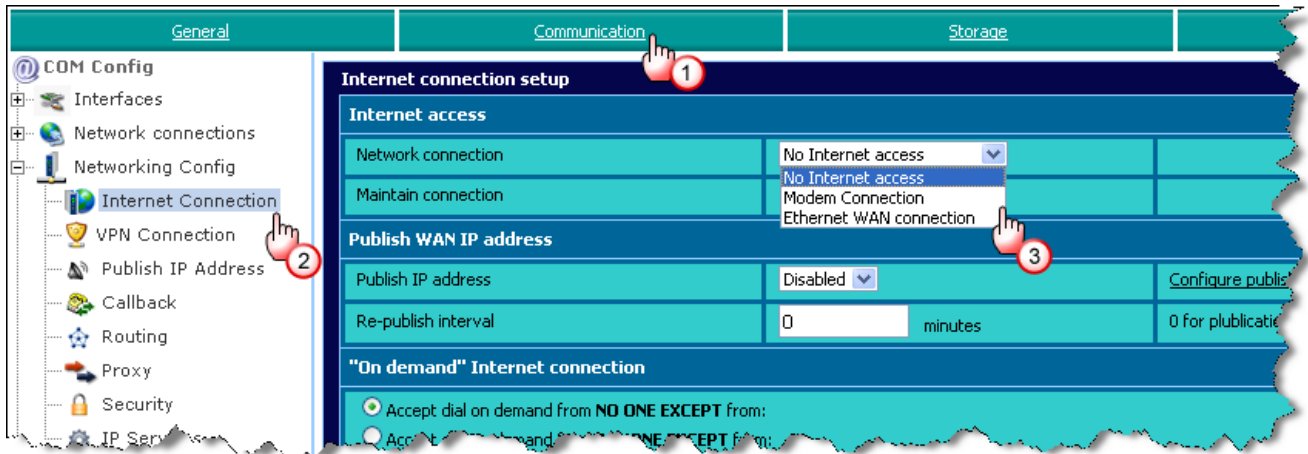
	Destination	Mask	
Route 1	0.0.0.0	0.0.0.0	0.0.0.0
Route 2	0.0.0.0	0.0.0.0	0.0.0.0
Route 3	0.0.0.0	0.0.0.0	0.0.0.0

- Note -

These changes will only be effective from the next WAN connection. So if the Internet connection on the eWON was already opened, then you need to close and reopen the Internet connection.

2. Activate the Internet connection

Under the menu SystemSetup->Communication->NetworkingConfig->InternetConnection, select the Internet connection you want to use:



Choose for example the "Ethernet WAN connection", to use the second Ethernet card (Ethernet WAN) of the eWON for the Internet connection.

3. Fulfill routing rules

Two important rules must be fulfilled to be able to use the eWON as router:

1. The device behind the eWON, which will use the eWON as router, must have the eWON LAN IP address specified as default gateway.
2. The eWON WAN IP address must not be compatible with its LAN IP address. This is automatically the case if the Internet connection is done using the modem. But if you use the second Ethernet interface of the eWON (Ethernet WAN) then make sure that both networks LAN and WAN are not compatible.

For example:

LAN = 192.168.1.50 and WAN=10.0.0.50 => OK

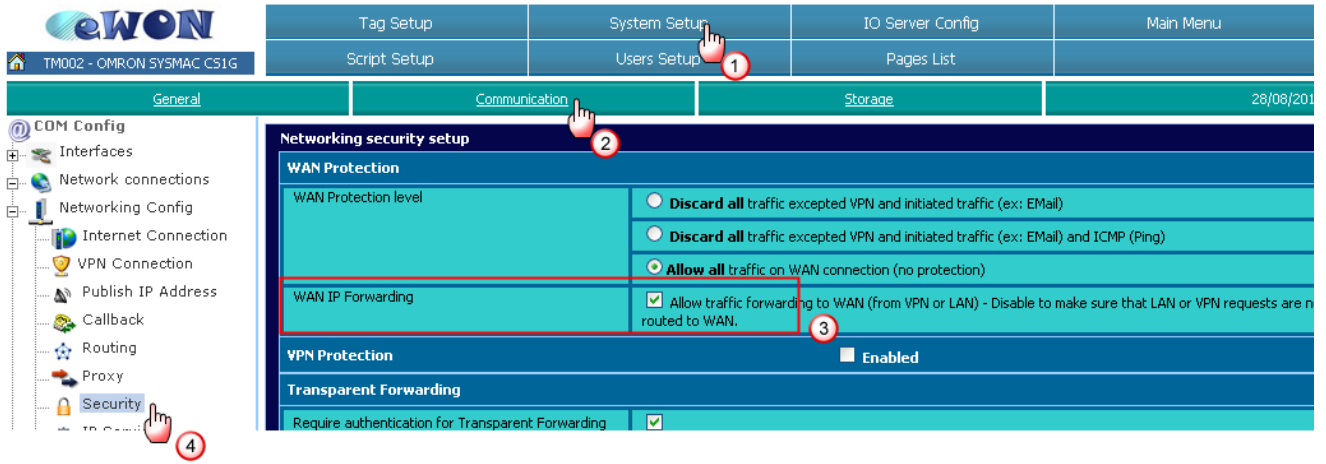
LAN = 10.0.0.53, MASK 255.255.255.0 and WAN 10.0.50.2, MASK 255.255.0.0 =>

NOT OK

3.1. eWON Security

If eWON is also configured (or has previously been configured) to realize a Talk2M connection, then you must also adapt the Security settings of the eWON in order to allow communication between the eWON LAN interface and the eWON WAN interface.

To realize this enable the "WAN IP forwarding" option as explained here under:



The screenshot shows the eWON web interface for a TM002 - OMRON SYSMAC CS1G device. The top navigation bar includes 'Tag Setup', 'System Setup', 'IO Server Config', and 'Main Menu'. Below this is a secondary bar with 'Script Setup', 'Users Setup', and 'Pages List'. The main content area is divided into 'General', 'Communication', 'Storage', and a date '28/08/201'. The left sidebar shows a tree view with 'COM Config' expanded, including 'Interfaces', 'Network connections', 'Networking Config', 'Internet Connection', 'VPN Connection', 'Publish IP Address', 'Callback', 'Routing', 'Proxy', and 'Security'. The 'Security' menu item is highlighted with a red circle and a hand cursor (4). The main content area shows the 'Networking security setup' page (2). Under 'WAN Protection', there are three radio button options: 'Discard all traffic excepted VPN and initiated traffic (ex: EMail)', 'Discard all traffic excepted VPN and initiated traffic (ex: EMail) and ICMP (Ping)', and 'Allow all traffic on WAN connection (no protection)'. The 'WAN IP Forwarding' section has a checked checkbox for 'Allow traffic forwarding to WAN (from VPN or LAN) - Disable to make sure that LAN or VPN requests are routed to WAN.' (3). The 'VPN Protection' section has a checked checkbox for 'Enabled'. The 'Transparent Forwarding' section has a checked checkbox for 'Require authentication for Transparent Forwarding'.



Revision

Revision History

Revision Level	Date	Description
1.0	17/10/2012	Creation of document

Document build number: 3

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eWON sa, Member of ACT'L Group