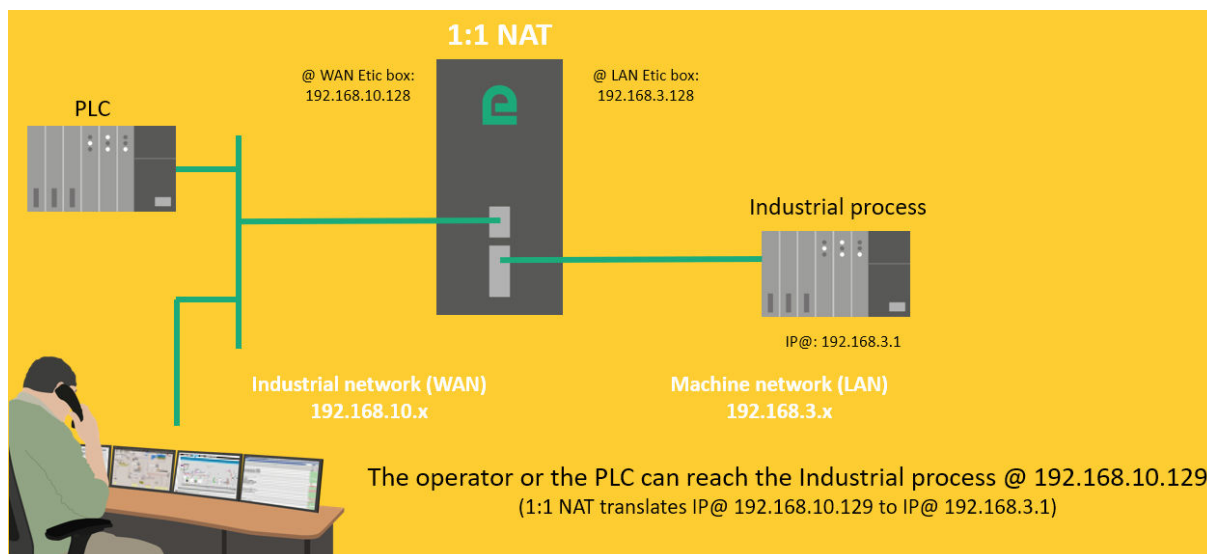


Application note

Starting with 1:1 NAT

- The 1:1 NAT solution
- Configuring the @IP WAN
- Configuring the @IP WAN
- Configuring the 1:1 NAT
- Hotline support during your test
- Virtual showroom

Latest update **09/14/2018**



1) THE 1:1 NAT SOLUTION

The 1:1 NAT solution simply interconnects a machine to an industrial network without changing the factory IP address of this machine.

It is sufficient to insert between the machine and the rest of the industrial network an IPL / RAS configured for an address translation.

2) CONFIGURING THE IP@ WAN

In the « Setup » section, select « WAN interface » and give to the Etic Telecom router an IP address which is available in the Industrial network (for example: 192.168.10.128)

The screenshot shows the router's configuration interface. On the left is a sidebar menu with 'Home' at the top, followed by 'Setup' (expanded) containing 'WAN interface', 'LAN Interface', 'Remote access', 'Network', 'Security', 'Serial gateways', 'System', 'Diagnostics', 'Maintenance', and 'About'. Below 'Setup' is 'Alert & Display'. The main content area is titled '> Home > Setup > WAN interface'. It contains several sections: 'WAN type' set to 'Ethernet'; 'Ethernet WAN port configuration' with 'Speed / duplex' set to 'Autonegociation'; 'IP configuration of Ethernet WAN' with 'Connection type' set to 'Ethernet'; and 'WAN interface: connection to an Ethernet network'. This last section includes 'Ethernet WAN priority' set to 'High', 'Obtain an IP address automatically' (unchecked), 'IP address' set to '192.168.10.128', 'Netmask' set to '255.255.255.0', an empty 'Gateway' field, 'Obtain DNS servers addresses automatically' (checked), 'Enable address translation (NAT)' (checked), and 'Enable proxy ARP' (unchecked).

> Home > Setup > WAN interface	
WAN type	Ethernet
Ethernet WAN port configuration	
Speed / duplex	Autonegociation
IP configuration of Ethernet WAN	
Connection type	Ethernet
WAN interface: connection to an Ethernet network	
Ethernet WAN priority	High
Obtain an IP address automatically	<input type="checkbox"/>
IP address	192.168.10.128
Netmask	255.255.255.0
Gateway	
Obtain DNS servers addresses automatically	<input checked="" type="checkbox"/>
Enable address translation (NAT)	<input checked="" type="checkbox"/>
Enable proxy ARP	<input type="checkbox"/>

3) CONFIGURING THE IP@ LAN

In the « Setup » section, select « LAN interface » => « Ethernet and IP » and give to Etic Telecom router an IP address which is available in the Machine network (for example: 192.168.3.128).

The screenshot shows the router's configuration interface for the LAN interface. The sidebar menu is the same as in the previous screenshot. The main content area is titled '> Home > Setup > LAN Interface > Ethernet and IP'. It contains two sections: 'Ports configuration' with 'Enable hub mode' (unchecked), and 'LAN network'. The 'LAN network' section includes 'IP address' set to '192.168.3.128', 'Netmask' set to '255.255.255.0', and an empty 'Default gateway' field.

> Home > Setup > LAN Interface > Ethernet and IP	
Ports configuration	
Enable hub mode	<input type="checkbox"/>
LAN network	
IP address	192.168.3.128
Netmask	255.255.255.0
Default gateway	

4) CONFIGURING THE 1:1 NAT

In the « Setup » section, select « Network > 1:1 NAT > Add/Edit a 1:1 NAT rule » enter the 2 IP@ to set up the translation (ex: @ 192.198.10.129 translated to @ 192.168.3.1).

> Home > Setup > Network > 1:1 NAT > Add/Edit a 1:1 NAT rule

Save	Cancel	Page has unsaved changes
Enabled		<input checked="" type="checkbox"/>
WAN on which apply the rule		Ethernet WAN ▼
WAN IP to add		192.198.10.129
LAN IP to map on WAN		192.168.3.1

5) HOT LINE SUPPORT DURING YOUR TEST

Feel free to contact +33 4 76 04 20 05 or hotline@etictelecom.com.

6) VIRTUAL SHOWROOM (AVAILABLE FROM THE WEBSITE HOME PAGE)

By surfing on our WEB site www.etictelecom.com (Support/Virtual Showroom) you can learn how to configure most of our products.

The following login and password may be requested: login: "etic", password: "demo".

The screenshot displays the Etic Telecom website's Virtual Showroom interface. At the top, the Etic Telecom logo is on the left, and navigation links (Qui sommes-nous ?, Produits ▼, Solutions ▼, Support ▼, Actualités, Contact) and an 'Espace client' button are on the right. Below the navigation bar, a green banner reads 'SHOWROOM VIRTUEL' and 'Accédez à l'ensemble des produits Etic Telecom.' The main content area features two dropdown menus. The first, 'Sélectionnez une gamme de produits', lists 'Boitiers d'Accès Machines (gamme RAS)', 'Routeurs (gamme IPL)', and 'Extenseurs d'Ethernet (gamme XS+)'. The second, 'Sélectionnez un produit', lists 'IPL-E / Routeur Firewall pour Intranet' and 'IPL-DAC / Routeur ADSL avec backup Cellulaire'. At the bottom, the Etic Telecom logo is repeated on the left, and contact information (13, chemin du Vieux Chêne, 38240 Meylan, Tél. 04 76 04 20 00, Fax. 04 76 04 20 01, and www.etictelecom.com) is on the right.