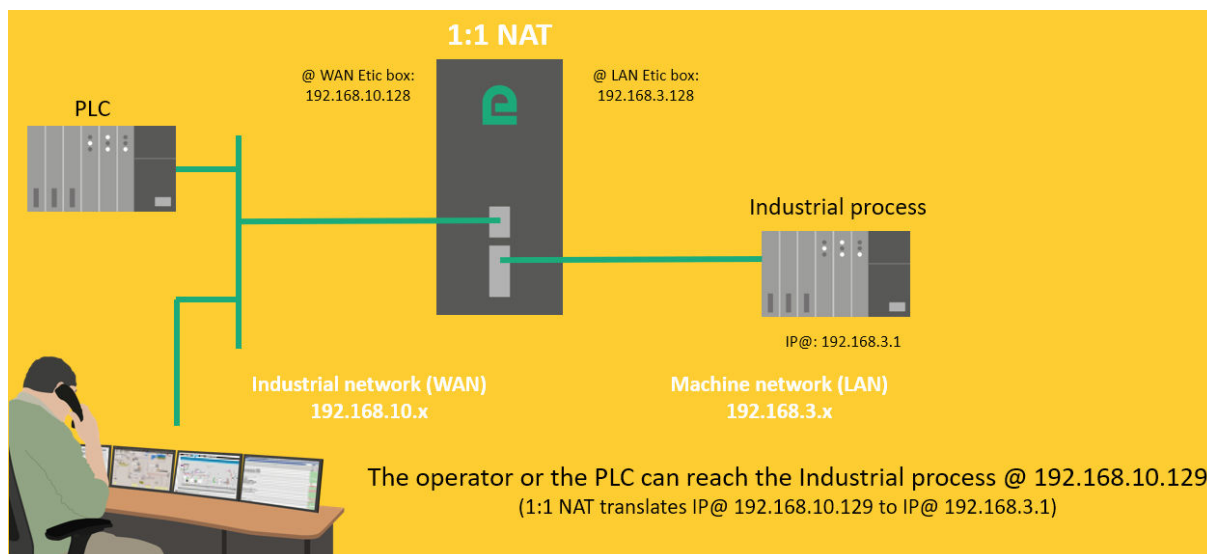# Application note

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**

1:1 NAT

@ WAN Etic box:
192.168.10.128

@ LAN Etic box:
192.168.3.128

PLC

Industrial process

IP@: 192.168.3.1

Industrial network (WAN)
192.168.10.x

Machine network (LAN)
192.168.3.x

The operator or the PLC can reach the Industrial process @ 192.168.10.129
(1:1 NAT translates IP@ 192.168.10.129 to IP@ 192.168.3.1)

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)

Home
  ▼ Setup
      WAN interface
    ▶ LAN Interface
    ▶ Remote access
    ▶ Network
    ▶ Security
    ▶ Serial gateways
    ▶ System
  ▶ Diagnostics
  ▶ Maintenance
    About

▶ Alert & Display

> 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	☐
IP address	192.168.10.128
Netmask	255.255.255.0
Gateway	
Obtain DNS servers addresses automatically	☑
Enable address translation (NAT)	☑
Enable proxy ARP	☐

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).

Home
  ▼ Setup
      WAN interface
    ▼ LAN Interface
        Ethernet and IP
        DHCP Server
        Devices list
    ▶ Remote access
    ▼ Network
      ▶ VPN Connections
      ▶ Routing

> Home > Setup > LAN Interface > Ethernet and IP

Ports configuration

Enable hub mode	☐

LAN network

IP address	192.168.3.128
Netmask	255.255.255.0
Default gateway	

DOC_MPR_IPL_Prise en main solution NAT 1 :1_A

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	☑
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".

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IPL-DAC / Routeur ADSL avec backup Cellulaire

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