CONNECTING UNITY
TO A REMOTE M340 SCHNEIDER PLC
USING THE M2ME_CONNECT SERVICE

Application note : FA237-2

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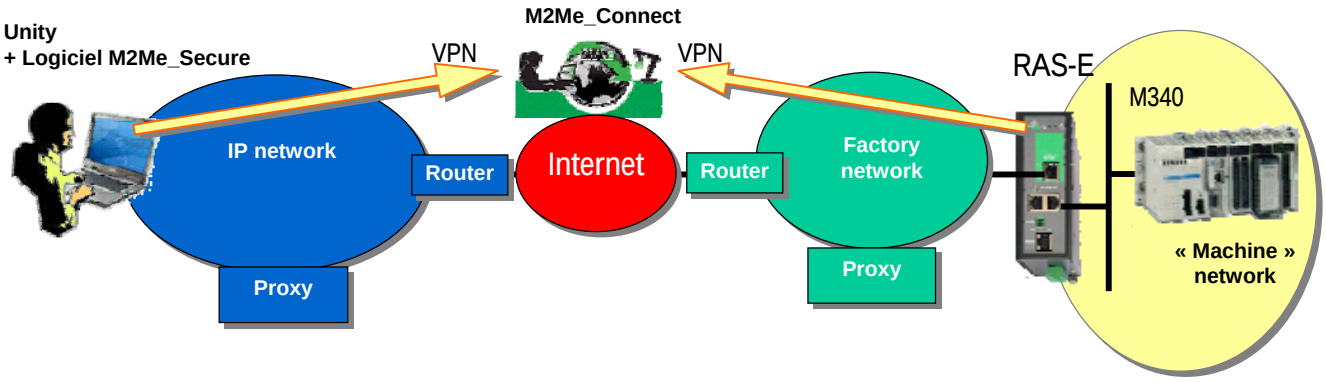
CONTENT

1 Objectif du document

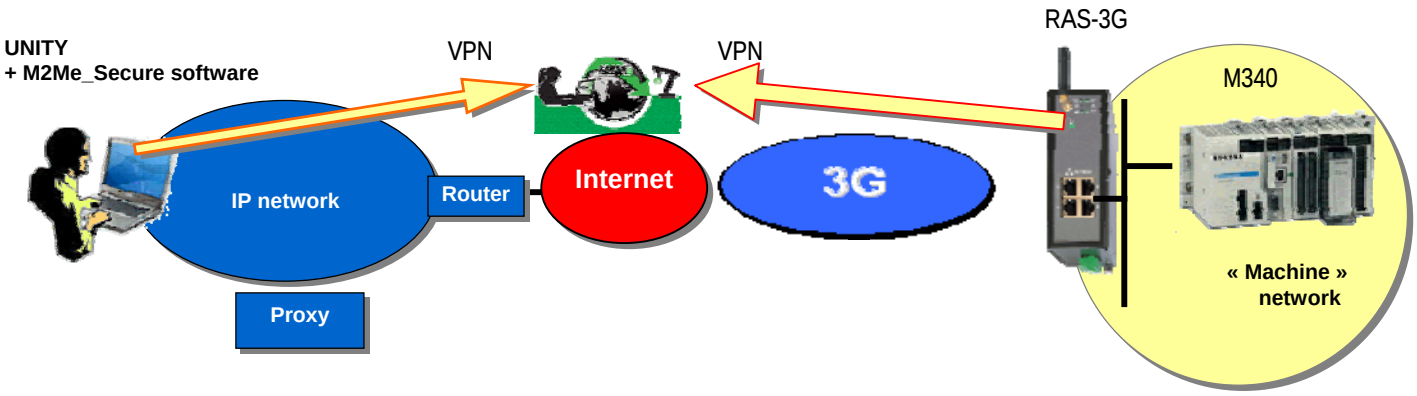
The subject of this document is to describe how to setup the UNITY software tool and the « RAS » machine access point to connect remotely to a Schneider Electric M340 PLC through the M2Me_Connect service provided by ETIC TELECOM.

2 Description

2.1 Case 1 : Using a « RAS-E » to connect to the M340 through a factory network



2.2 Case 2 : Using a « RAS-3G » to connect to the M340 through the 3G network

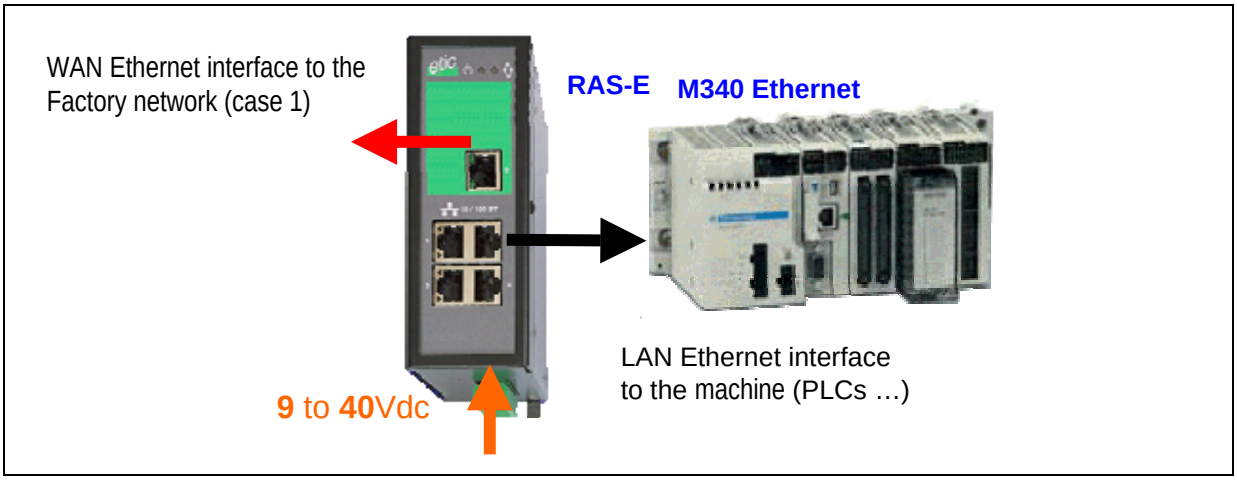


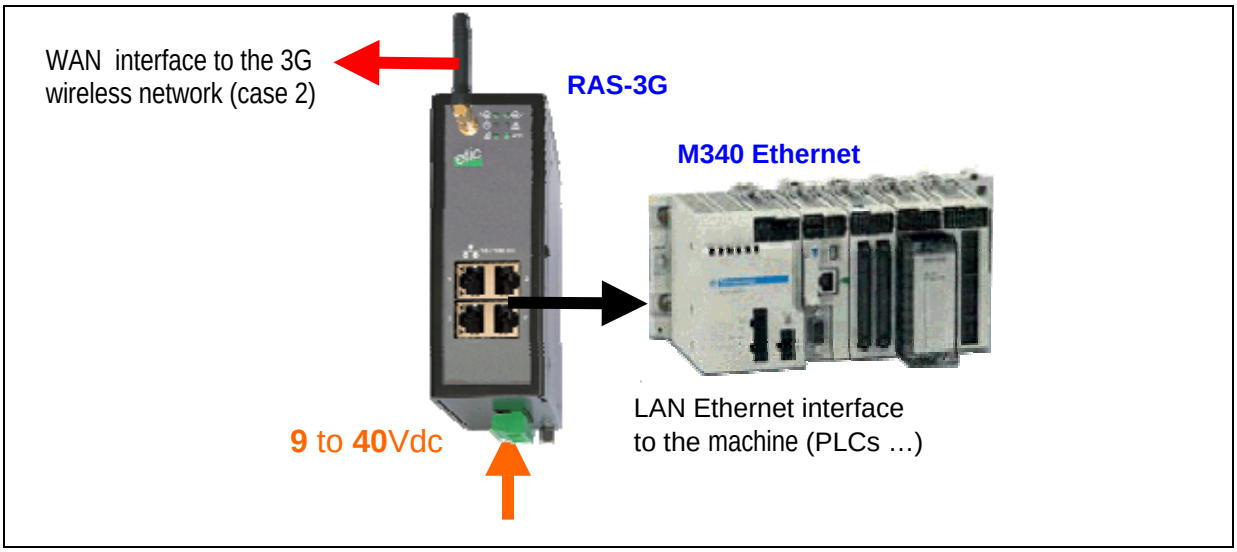
3 Installation

3.1 List of devices

• Machine access point	RAS-E-1400 (case 1) RAS-3G (case 2)
• M2Me_Connect pack including	
- The M2Me_Secure software	Version 1.43
- X509 certif icate delivered by ETIC TELECOM	
• M340 PLC	P342020.
• UNITY software tool	

3.2 Connections

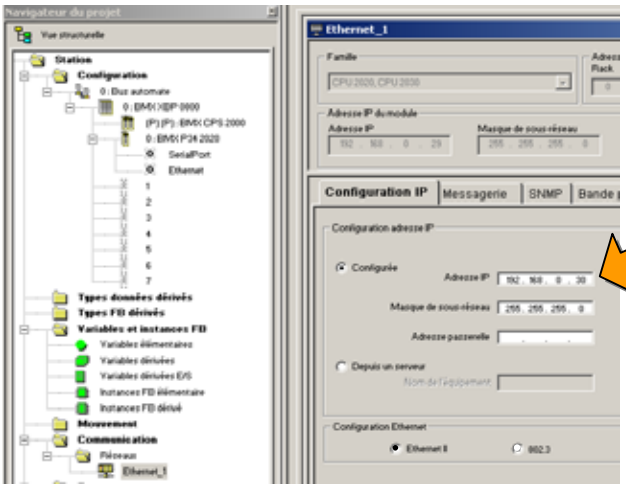




4 Configuration

4.1 Configuring the M340 PLC

- Select the project browser and assign an IP address to the M340 PLC.



M340.IP address

The IP address of the RAS LAN interface and the IP address of the PLC belong to the same network

4.2 Configuring the RAS machine access point

We give below a general information about the RAS configuration. For detailed infrmation, please refer to the manual (RAS-E = 9018209-02 or RAS-3G = 9019209-01).

- Enter the configration html server (default IP addr. : 192.168.0.128),

- LAN interface (Machine interface)
  Assign an IP address to the LAN interface of the the RAS ; that address must belong to the machine IP network .

  Enter the IP addresses (1 or several) which will be assigned automatically to the remote PC when it will connect. That addresses must belong the machine IP network.

- WAN interface configuration
  RAS-E (factory access) : select either the DHCP option, or assign an IP address to that interface and enter the DNS @ & the default gateway address).

  RAS-3G (3G network) : Enter the login, password and APN of the 3G subscription.

- Select the M2Me option and select the transport protocol (UDP / TCP), the port Nr and the proxy characteristics (if necessary).

4.3 Creating a remote site in the M2Me software

- Launch the M2me_Secure software.
- Select « Menu ».
- Click « New site ». The Site window is dispayed.
- Select the General tab and assign a name to the new site
- Select the « Connection » tab,

  Select the two checkboxes : « The site can be reached through Internet » and « The site can be reached through M2Me ».

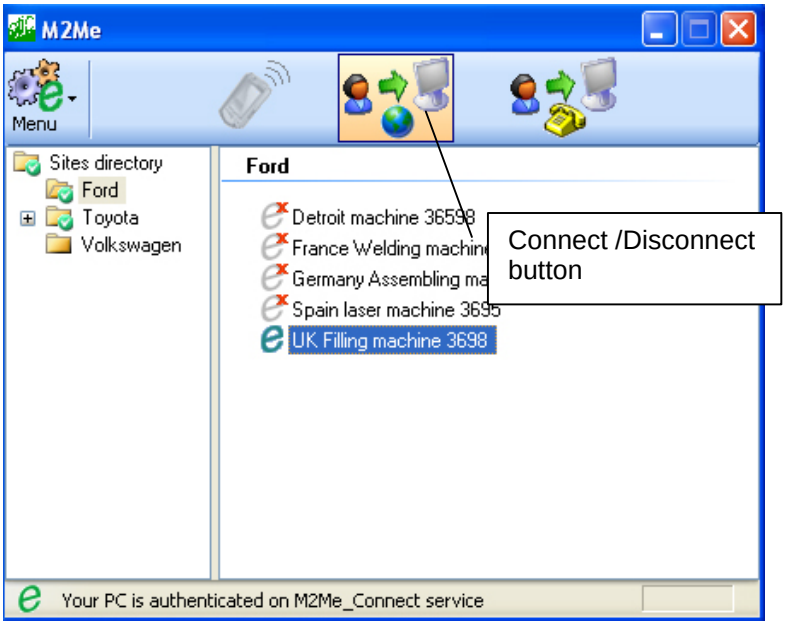
  Enter the « product key » code which identifies the remote RAS-router. The “product key” can be copied from the menu ABOUT of the RAS-router/

5 Using Unity remotely

5.1 Connecting the PC to the remote network

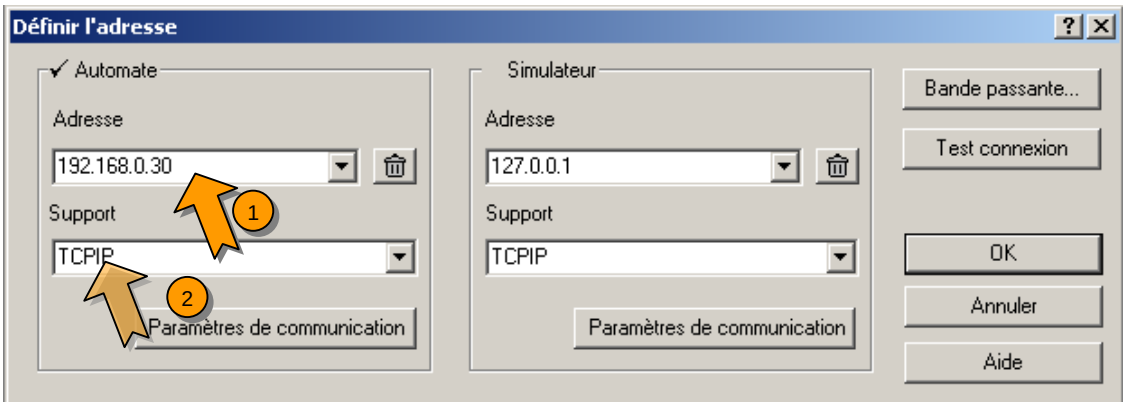
- Launch M2Me_Secure
- Connect the PC to the M2Me_Connect service
- Select the machine in the list

Click the Connection button to connect safely the PC to the remote network



5.2 Setting up Unity

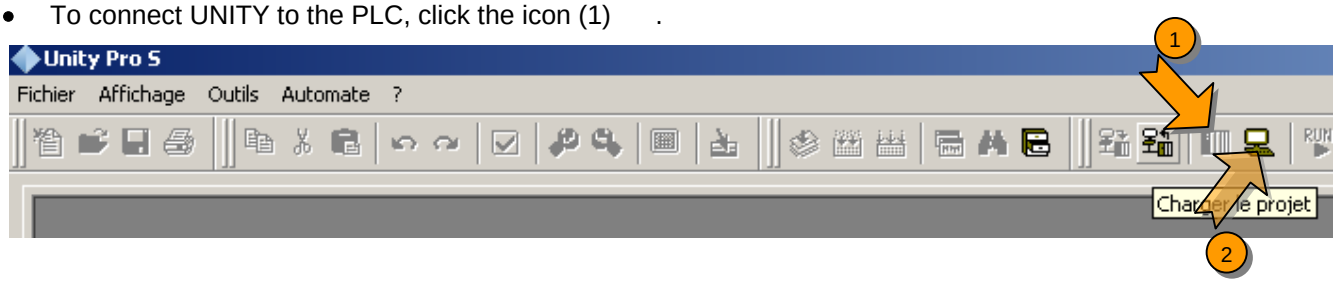
- Click the PLC button and then « Define the address ».



- Enter the IP address of the the remote PLC (192.168.0.30 in the example above) and select the protocol (TCP/IP in the example above).
- Click OK.

5.3 Connecting Unity to the PLC

- To connect UNITY to the PLC, click the icon (1) .



- Once connected tot he PLC, use UNITY as usually.

5.4 Disconnecting Unity from the PLC

- Click the icon (2).

5.5 Disconnecting the PC

- Click the Disconnect button in M2Me_Secure