

Modicon M340

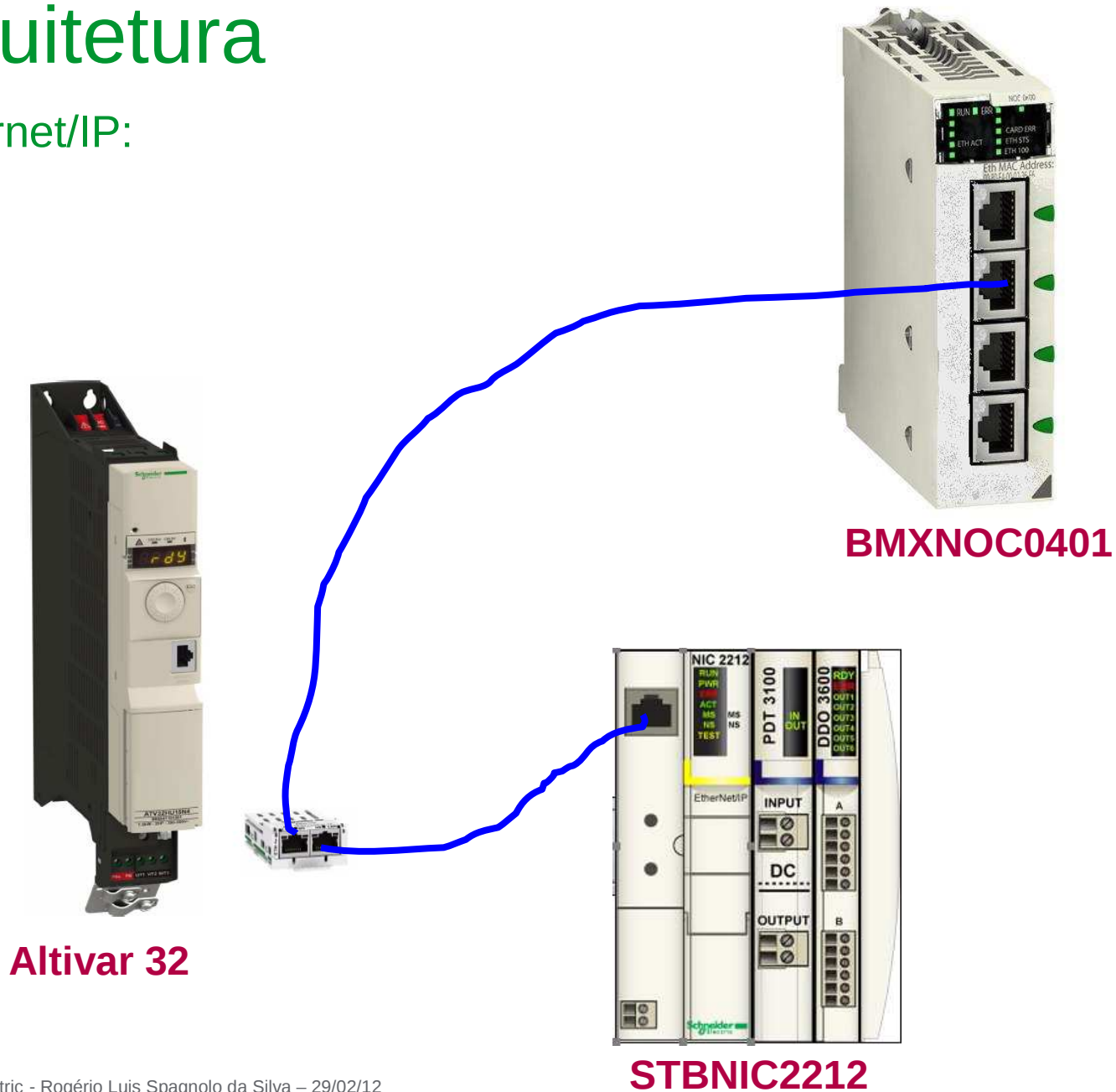
Exemplo de comunicação em Ethernet/IP com Altivar 32 e STBNIC2212.

Atenção: Esta nota de aplicação requer a utilização dos manuais de software e hardware pertinentes aos produtos envolvidos para obter informações complementares.



Arquitetura

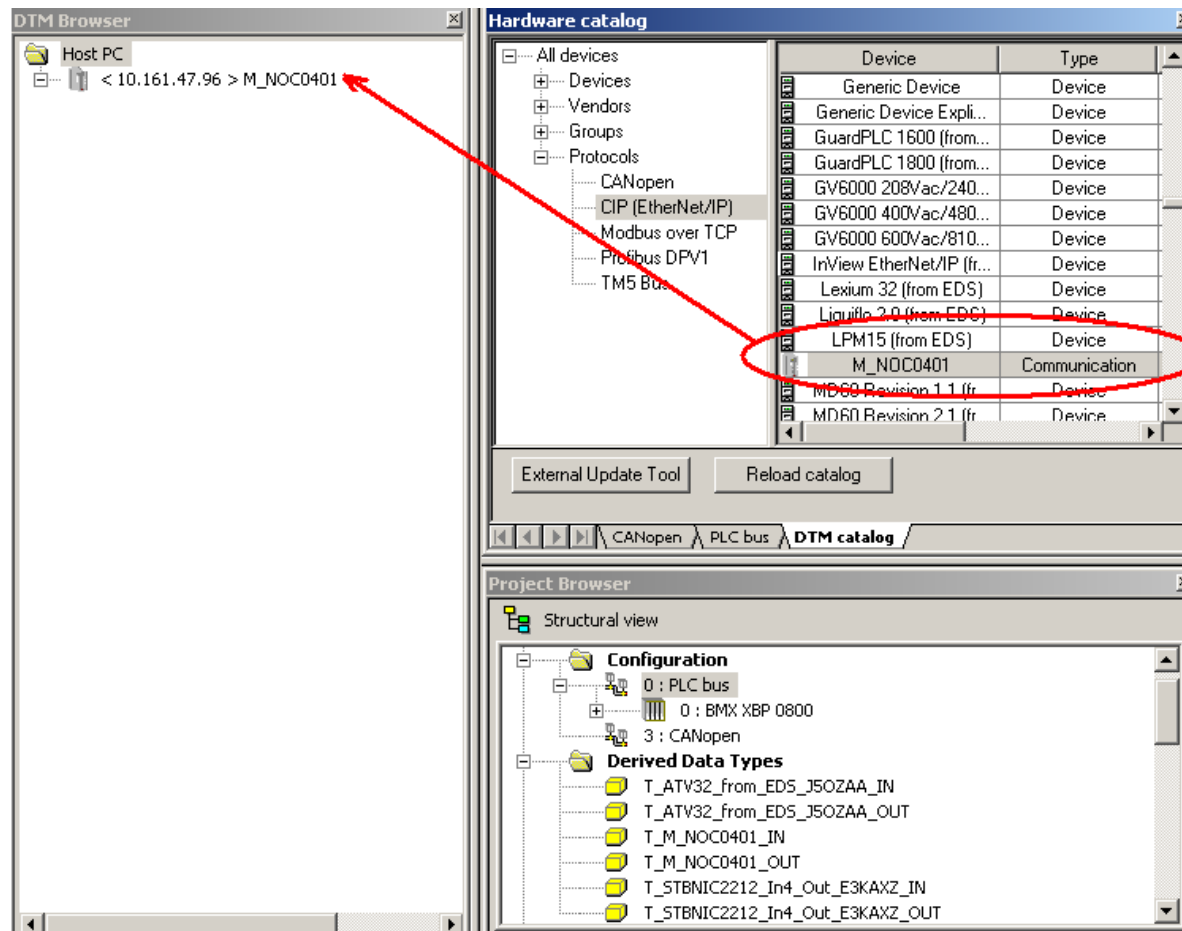
- Ethernet/IP:



UnityPro

- Ethernet/IP:

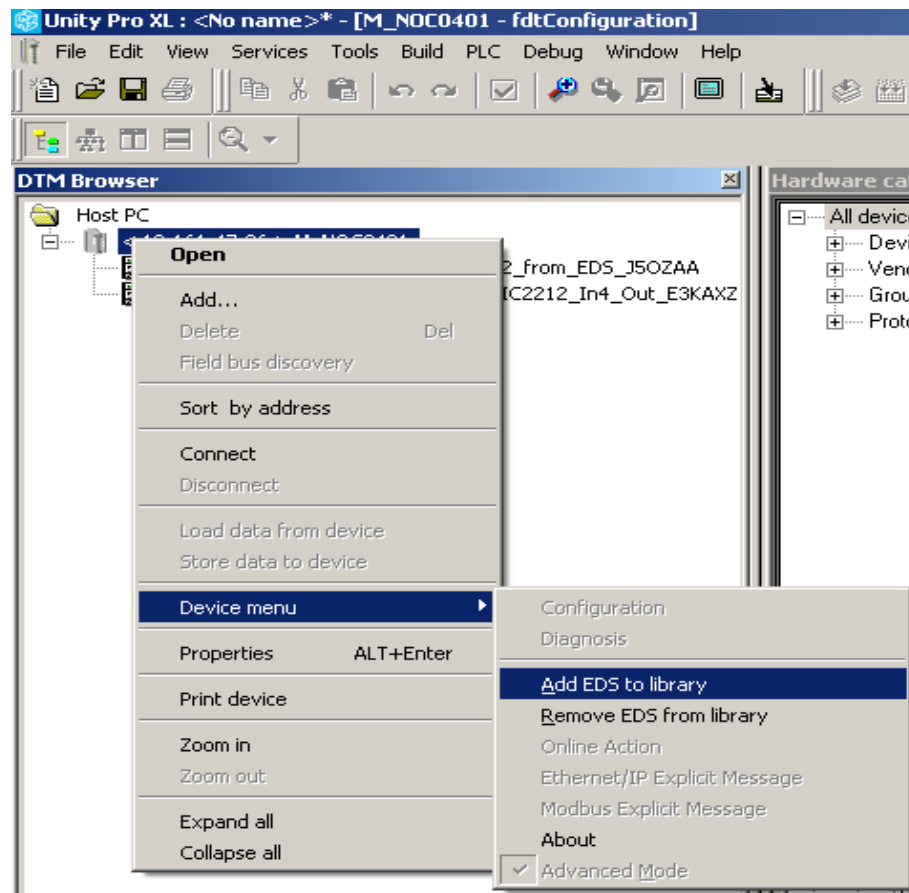
Em **Hardware Catalog**, configurar para o **DTM Browser** o módulo **BMXNOC0401** para em seguida, a partir dos arquivos *EDS (Eletronic DataSheet)*, configurar o **Altivar 32** e o **STBNIC2212**:



UnityPro

- Ethernet/IP:

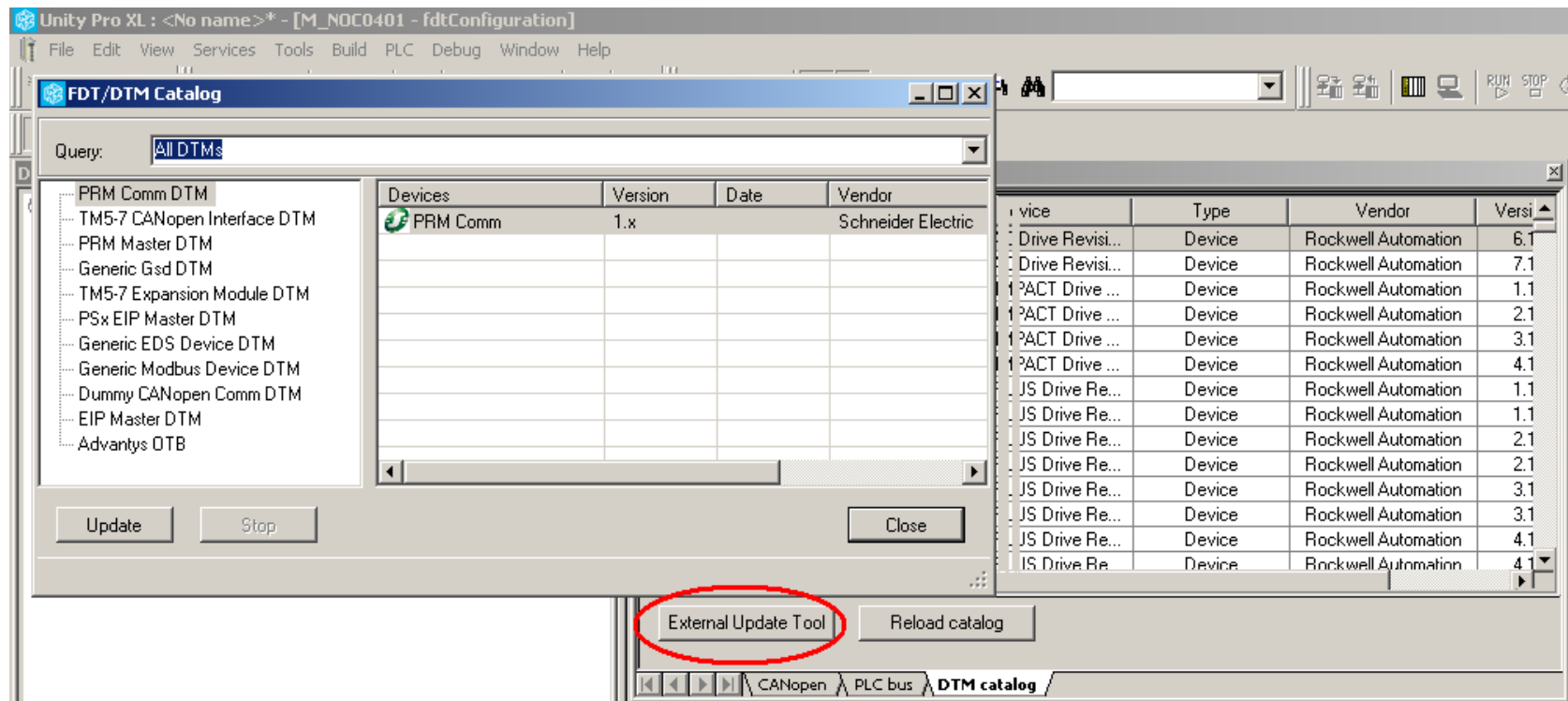
Para acrescentar na biblioteca Ethernet/IP um novo arquivo *EDS*, no DTM Browser, entrar na opção **Add EDS to library** e seguir as telas posteriores para localização do arquivo.



UnityPro

- Ethernet/IP:

Após inserir o novo *EDS* na biblioteca, em **External Update Tool**, atualiza-se a biblioteca com os arquivos *EDS* para Ethernet/IP:



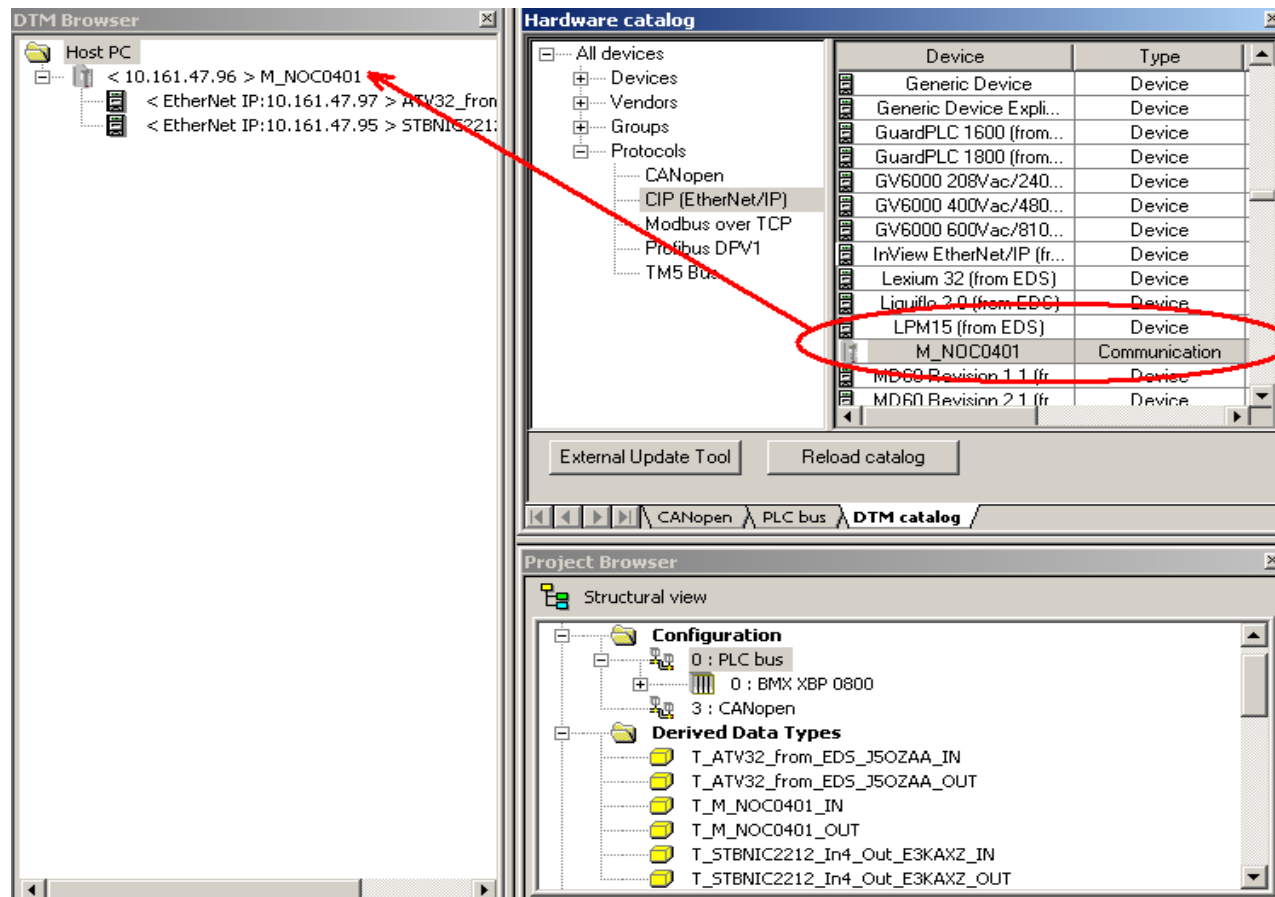
OBS.: Utilizar este método para inserir o *EDS* de configuração do **STBNIC2212** gerada a partir do software Advantys.

Em seguida, deve-se realizar o **Reload Catalog** para ter disponível o arquivo inserido na biblioteca.

UnityPro

- Ethernet/IP:

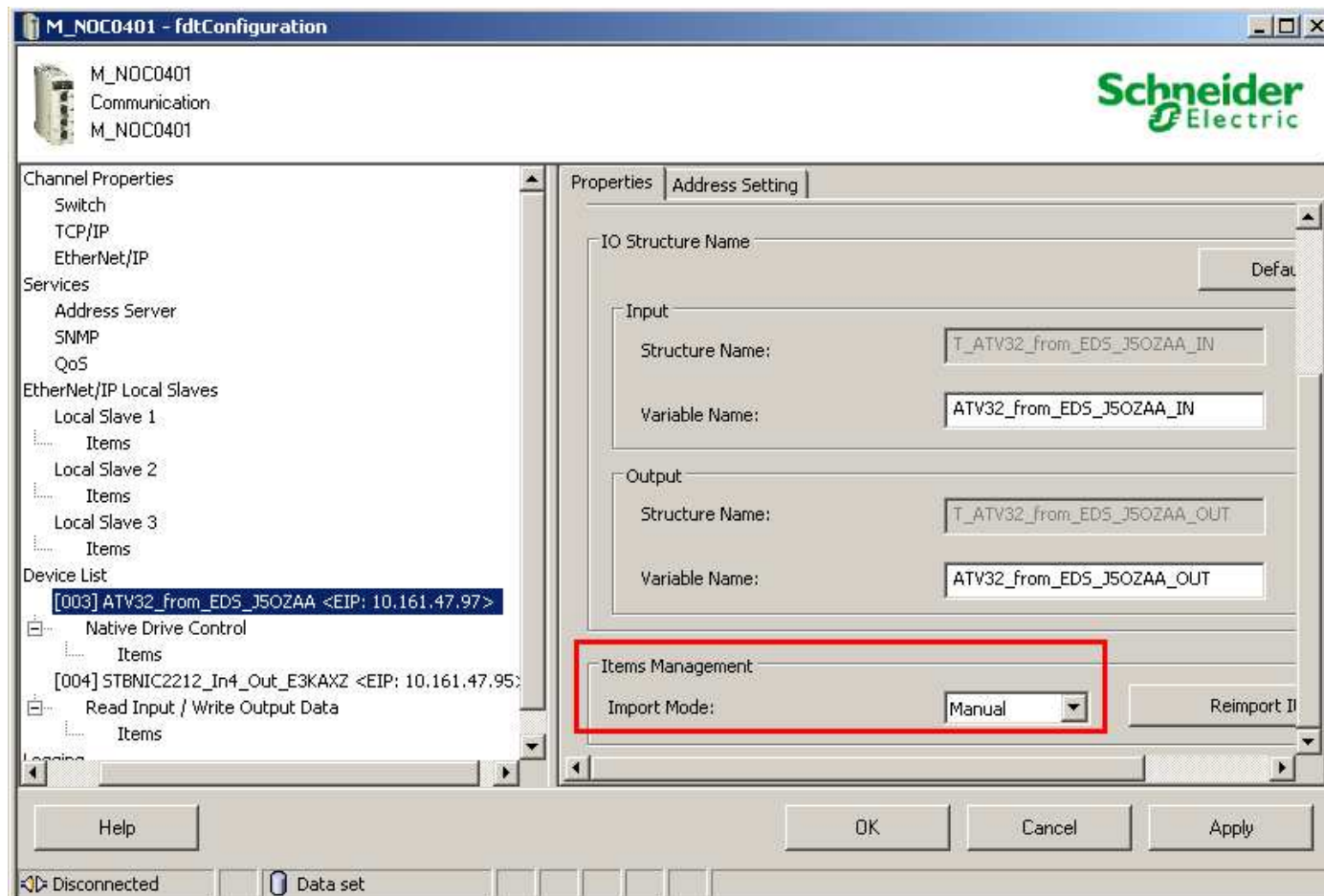
Após os elementos de rede configurados no **DTM Browser**, teremos a configuração da rede Ethernet/IP e em **Project Browser**, nas variáveis estruturadas (*Derived Data Types*), as variáveis de comunicação serão trazidas conforme objetos configurados anteriormente:



UnityPro

- **Altivar 32:**

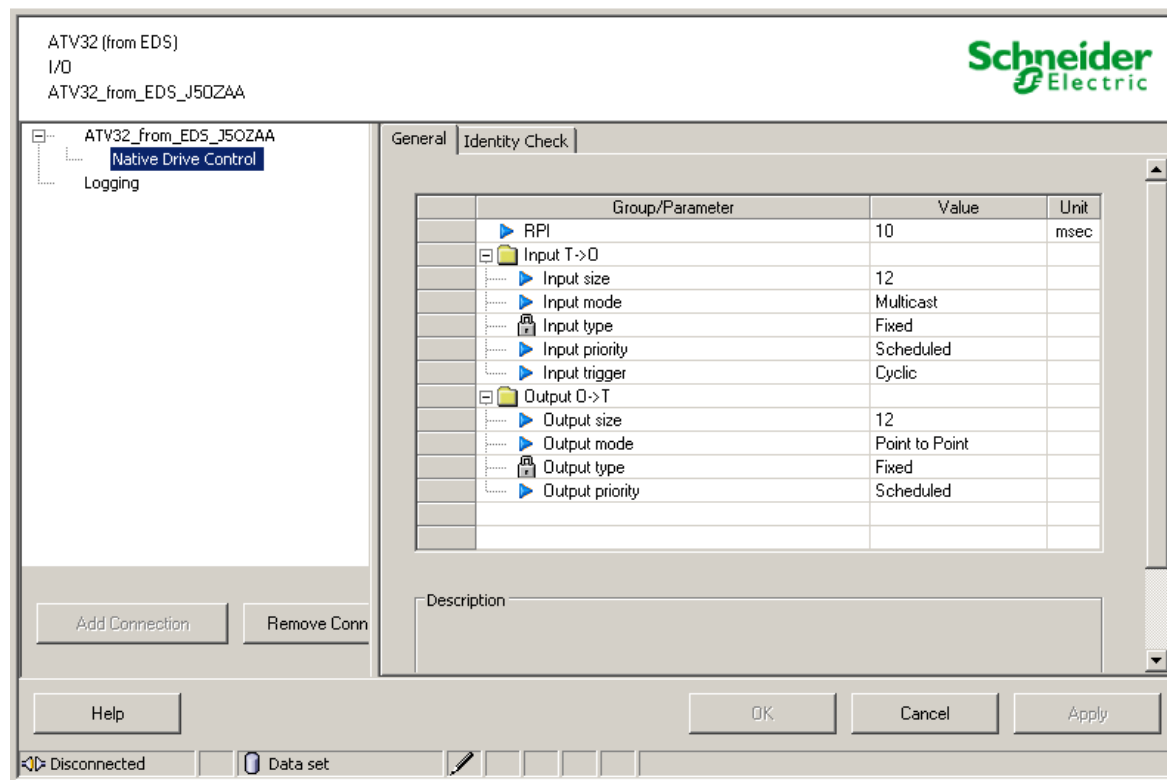
Ao entrar na configuração do módulo **BMXNOC0401** em **DTM Browser**, procure o **Altivar 32** em **Device List** e realize a configuração manual das variáveis:



UnityPro

- Altivar 32:

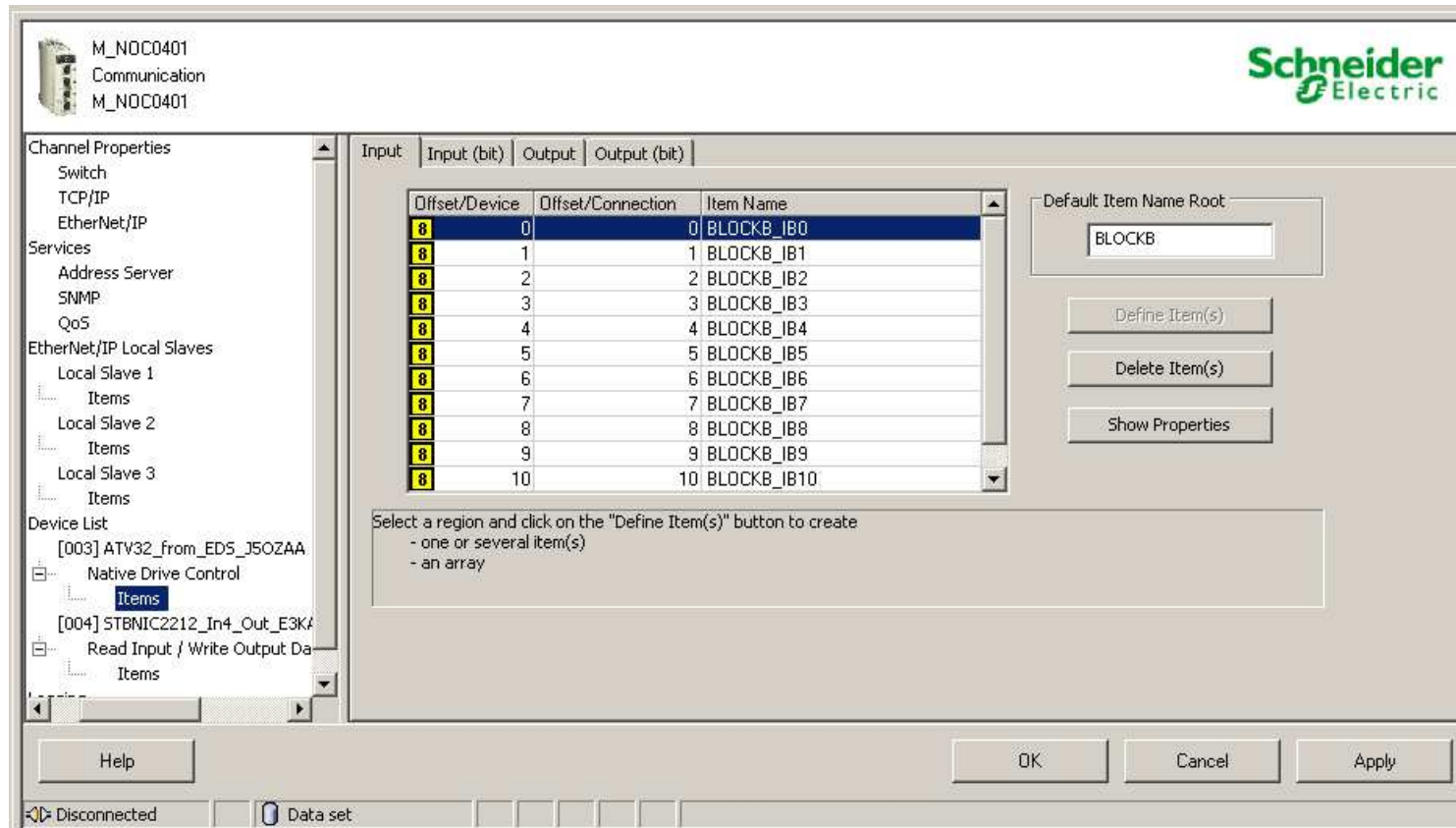
Para configurar o **Altivar 32** para que realize a leitura e escrita via rede, escolha a opção **Native Drive Control**:



UnityPro

- Altivar 32:

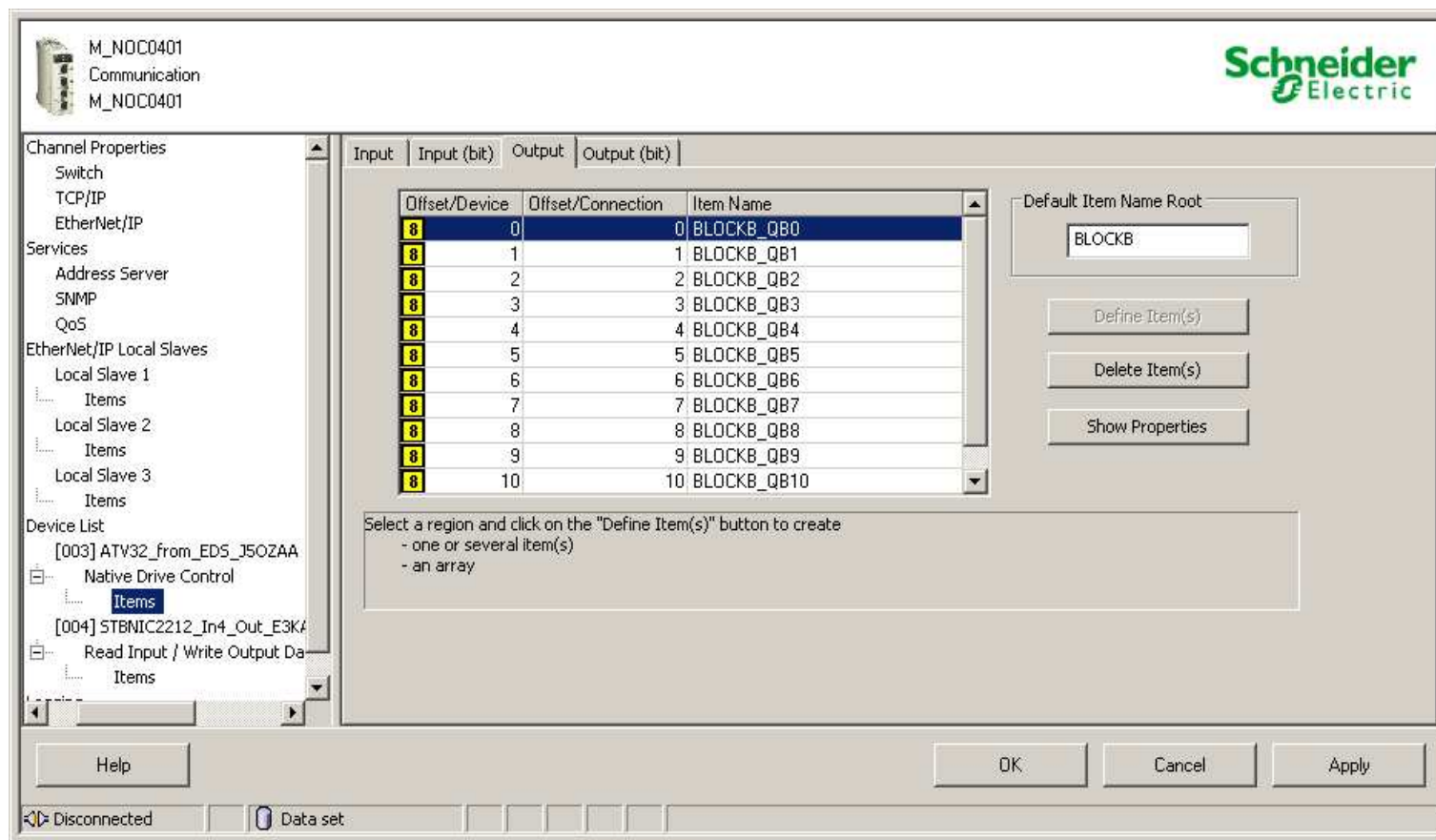
Definir o mapa de variáveis de entrada do **Altivar 32**:



UnityPro

- Altivar 32:

Definir o mapa de variáveis de saída do **Altivar 32**:



SoMove Lite

- Altivar 32:

Configuração de comando via comunicação:

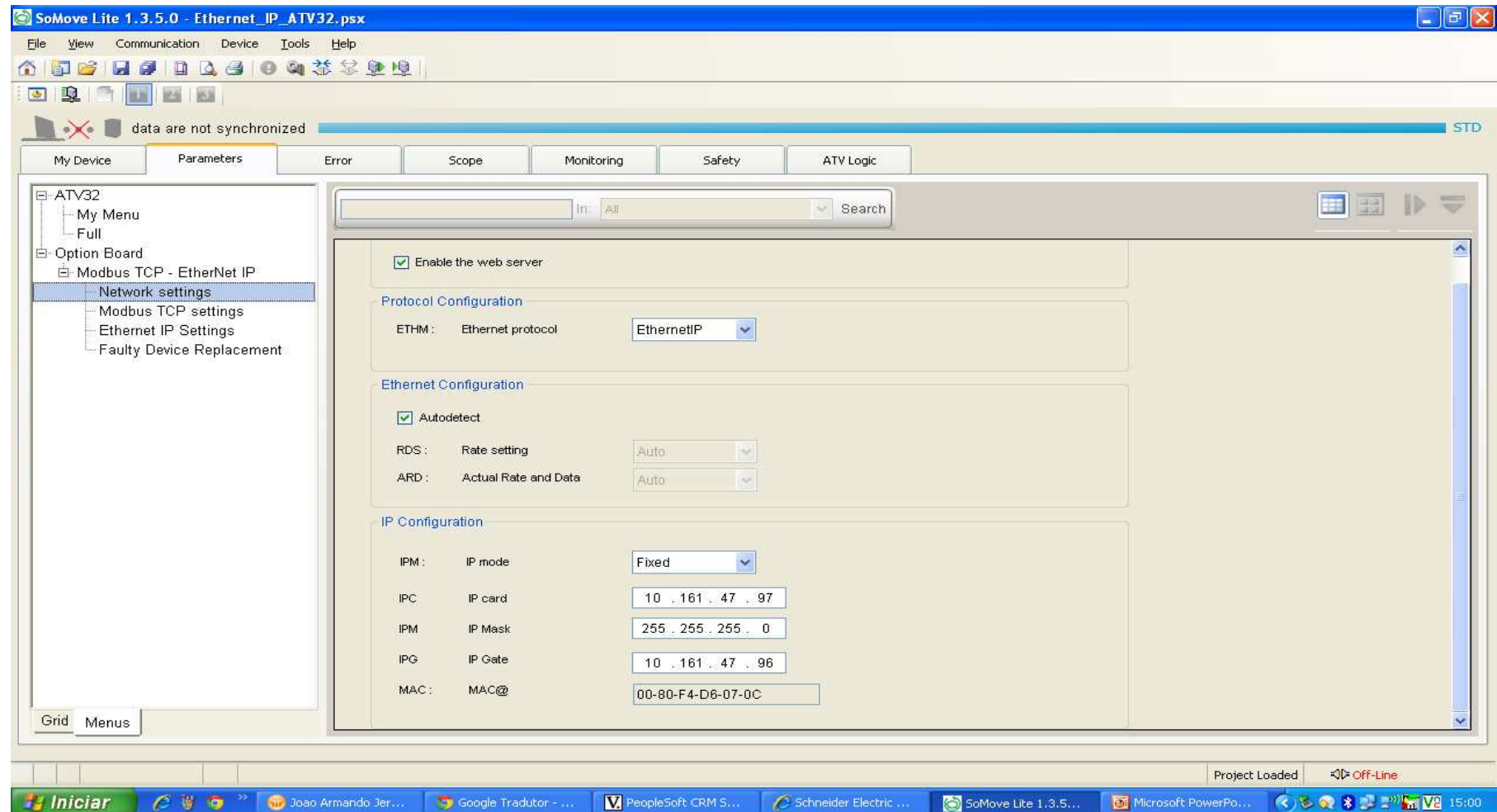
The screenshot shows the SoMove Lite 1.3.5.0 software interface for configuring an Altivar 32 motor drive. The window title is "SoMove Lite 1.3.5.0 - Ethernet_IP_ATV32.psx". The menu bar includes File, View, Communication, Device, Tools, and Help. A status bar at the top indicates "data are not synchronized". The main interface has tabs for My Device, Parameters, Error, Scope, Monitoring, Safety, and ATV Logic. The left sidebar shows a tree structure for "ATV32" with options like "My Menu", "Full", and "Option Board". The "Option Board" is expanded, showing "Modbus TCP - EtherNet IP" and its sub-items: "Network settings", "Modbus TCP settings", "Ethernet IP Settings", and "Faulty Device Replacement". The main area displays a table of parameters with columns: Code, Long Label, ConfID, Default Value, Min Value, Max Value, and Logical address. The table is filtered by "In: All".

Code	Long Label	ConfID	Default Value	Min Value	Max Value	Logical address
LAC	Level of access control	Advanced	Standard			3006
SIMPLY START						
SETTINGS						
MOTOR CONTROL						
INPUTS / OUTPUTS CFG						
COMMAND						
FR1	Configuration reference 1	Com. card	AI1			8413
RIN	Reverse direction inhibit.	No	No			3108
PST	STOP key priority	Yes	Yes			64002
CHCF	Channel mode config.	Separate	Not separ.			8401
CCS	Cmd channel switch	C312	Cmd 1 act			8421
CD1	Control channel 1 config.	Com. card	Terminals			8423
CD2	Control channel 2 config.	Terminals	Modbus			8424
RFC	Select switching (1 to 2)	C313	Ref 1 act			8411
FR2	Configuration reference 2	AI1	No			8414
COP	Copy Ch.1 <-> Ch. 2	No	No			8402
FN1	F1 key assignment	No	No			13501
FN2	F2 key assignment	No	No			13502
FN3	F3 key assignment	No	No			13503
FN4	F4 key assignment	No	No			13504
BMP	HMI command	Stop	Stop			13529
FUNCTION BLOCKS						
APPLICATION FUNCT.						

SoMove Lite

- Altivar 32:

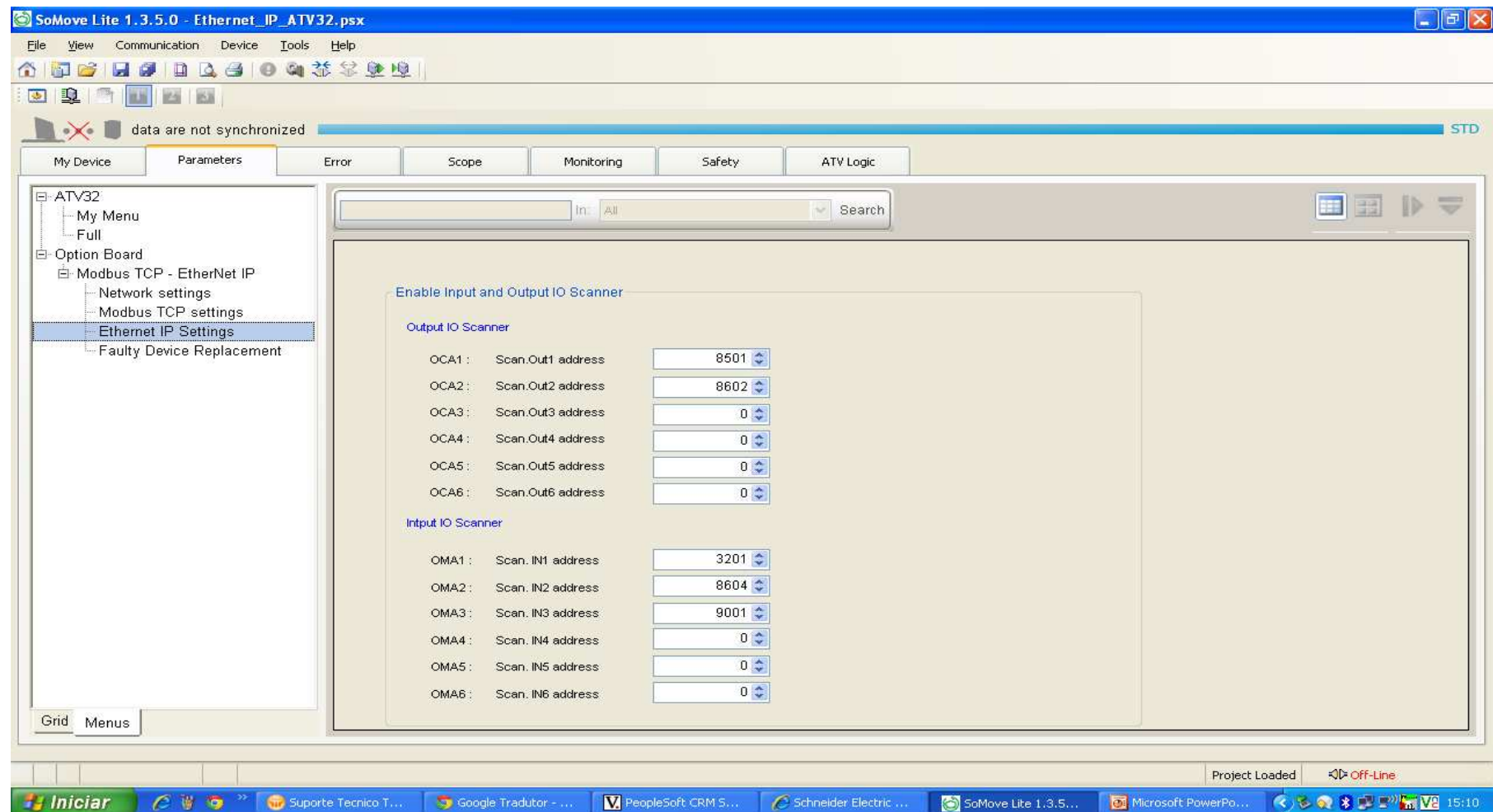
Definir endereço IP e protocolo :



SoMove Lite

- Altivar 32:

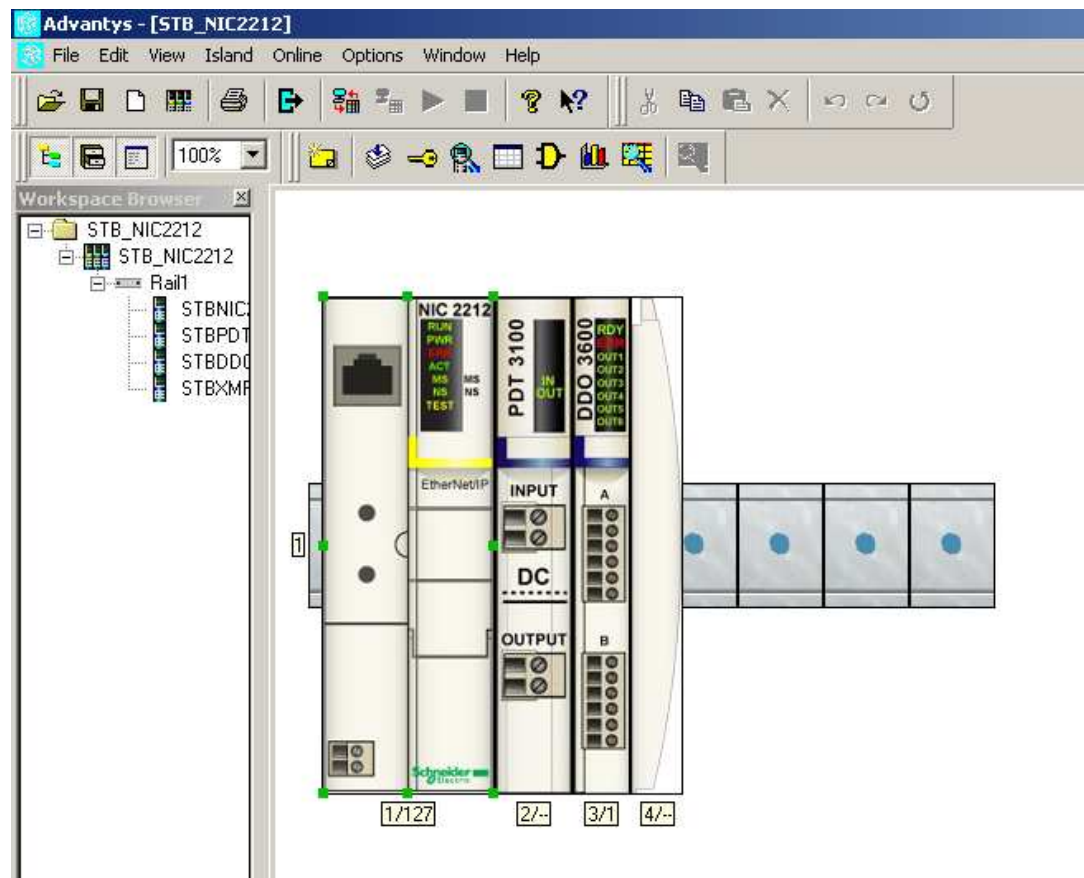
Definir mapa de variáveis para comunicação:



Advantys

- STBNIC2212:

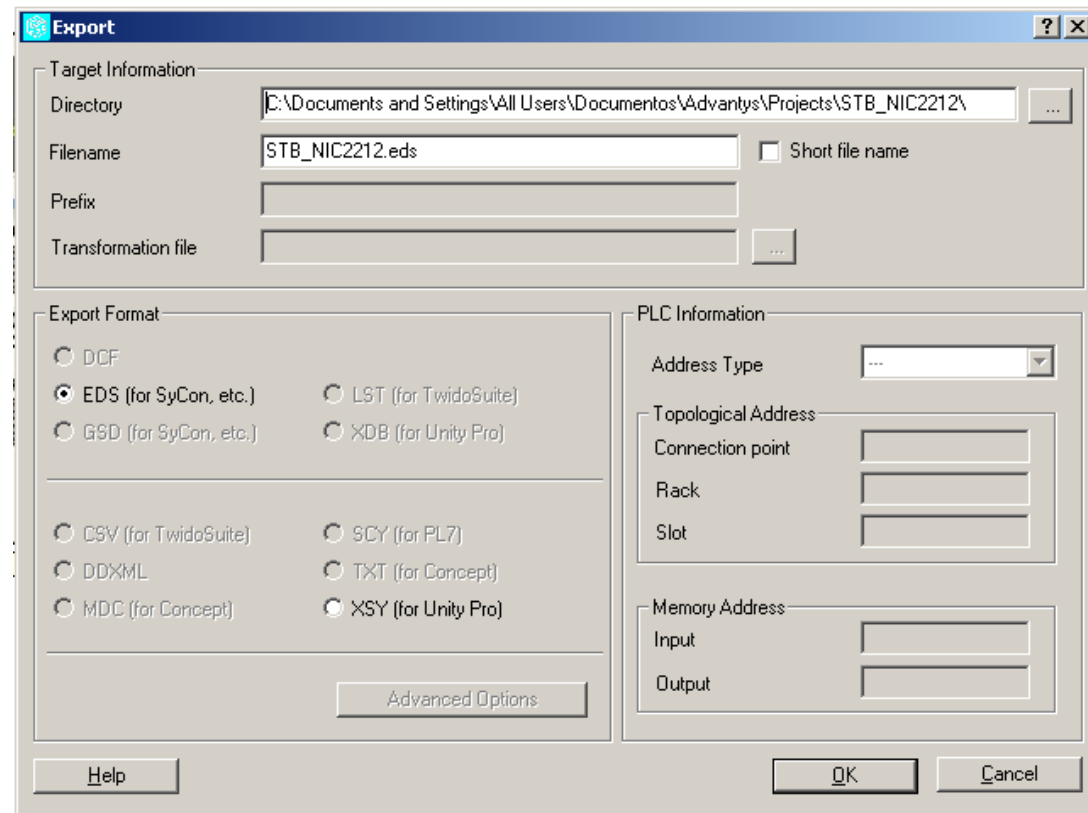
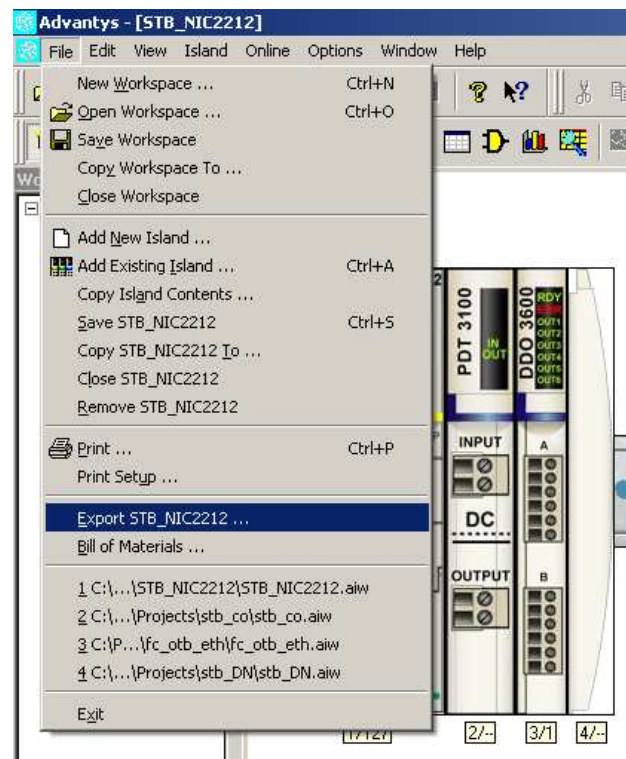
Configuração da ilha Advantys:



Advantys

- STBNIC2212:

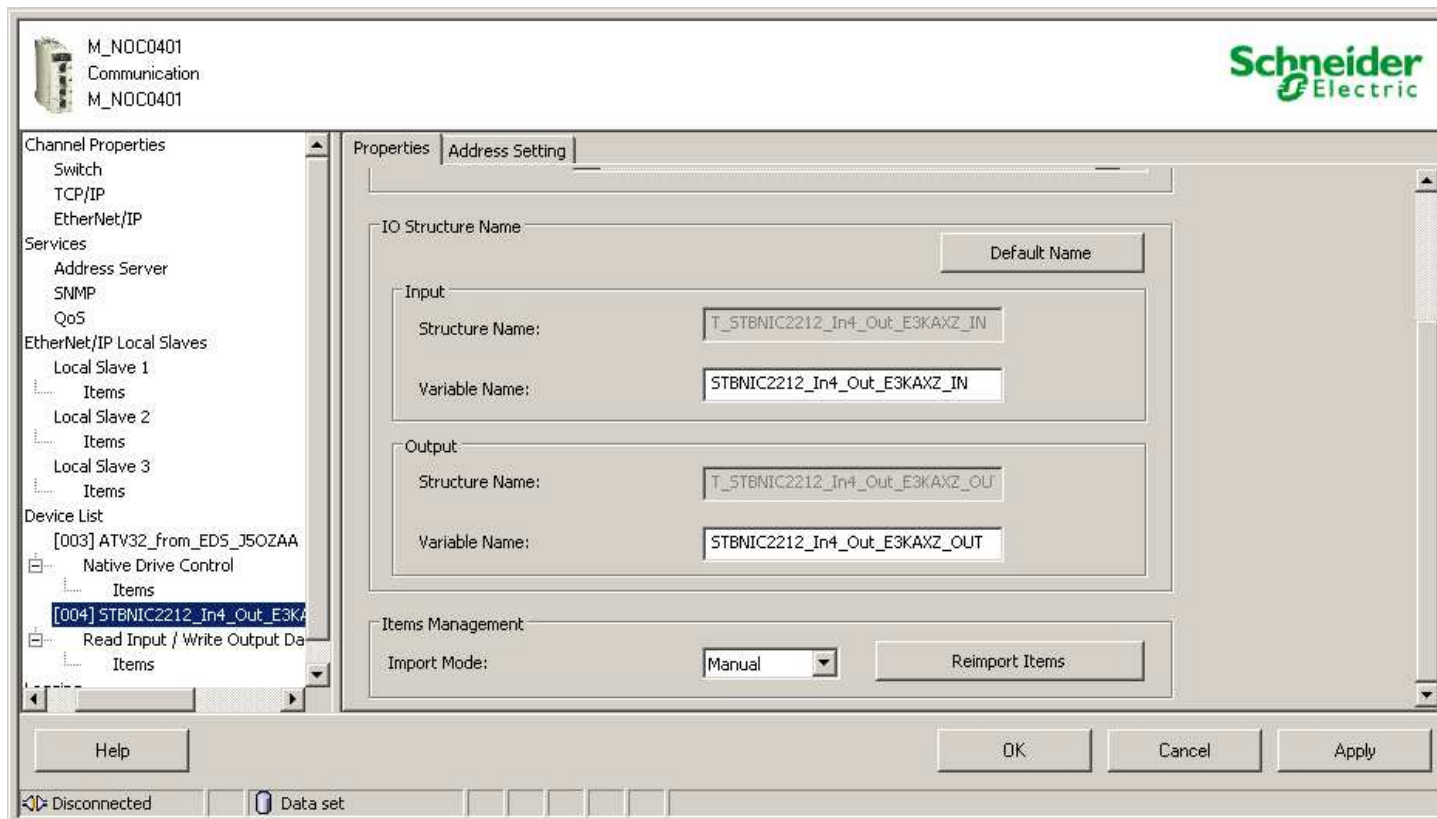
Exportar o arquivo *EDS*:



UnityPro

• STBNIC2212:

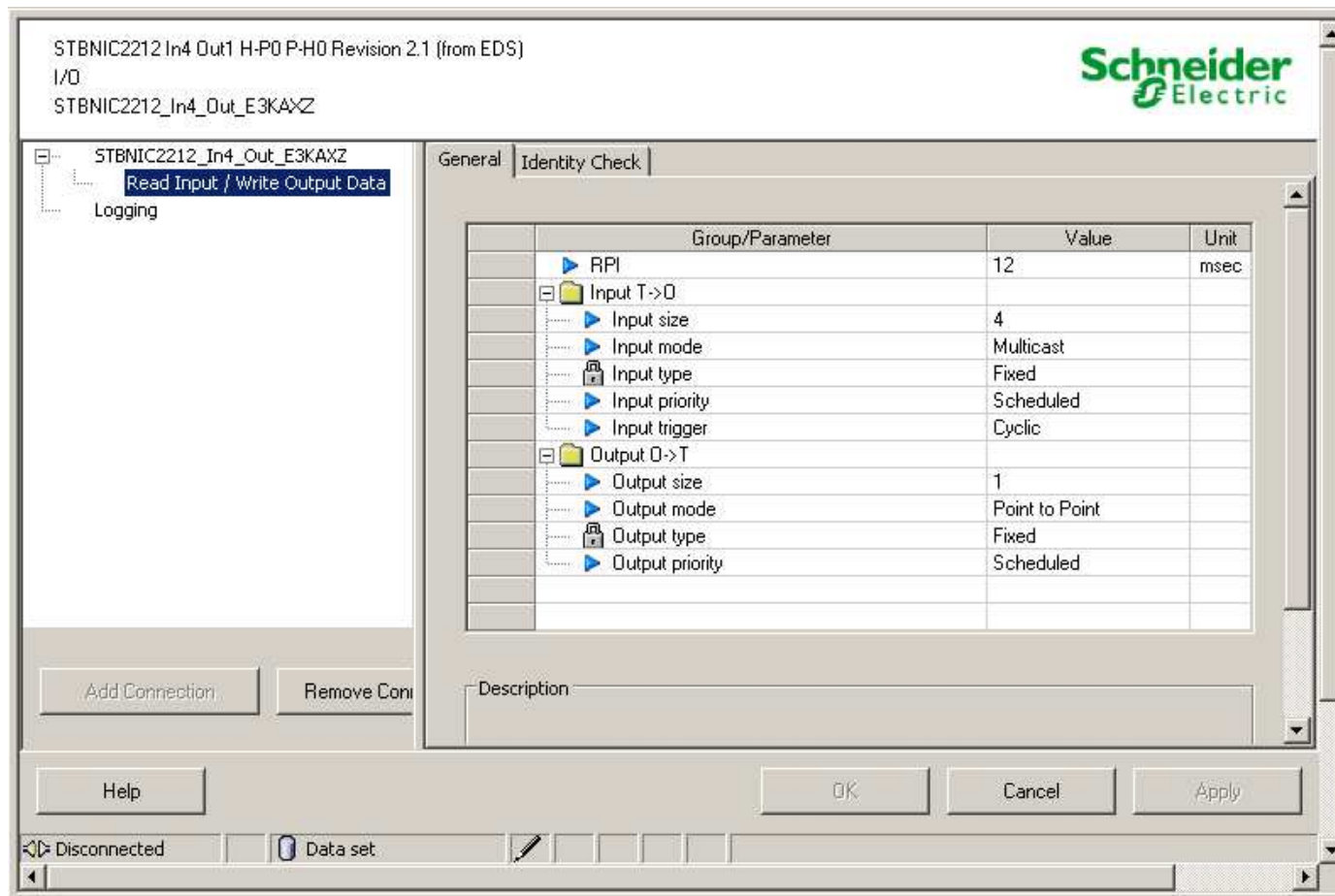
Ao entrar na configuração do módulo **BMXNOC0401** em DTM Browser, procure o **STBNIC2212** em Device List e realize a configuração manual das variáveis:



UnityPro

- STBNIC2212:

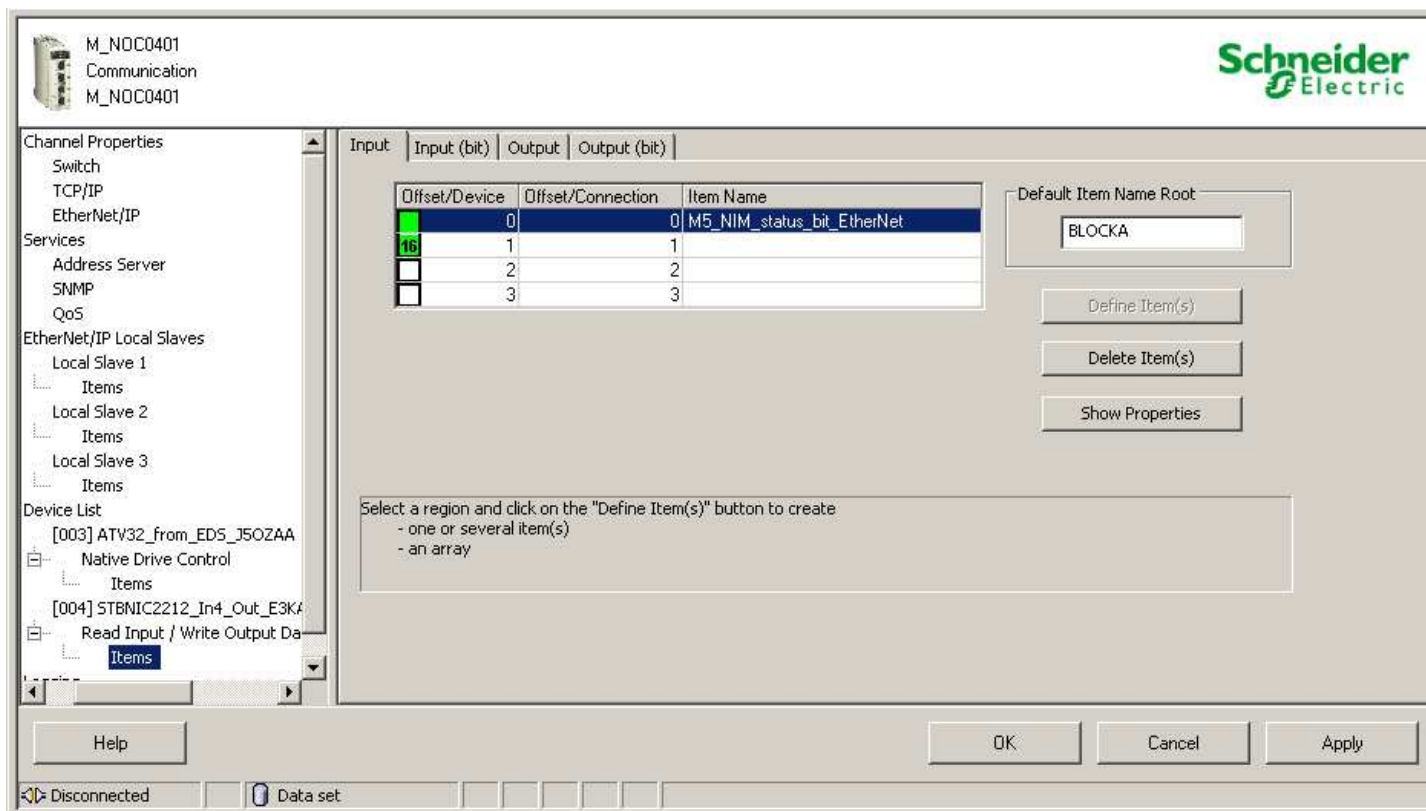
Para configurar o **STBNIC2212** para que realize a leitura e escrita via rede, escolha a opção **Read Input / Write Output Data**:



UnityPro

• STBNIC2212:

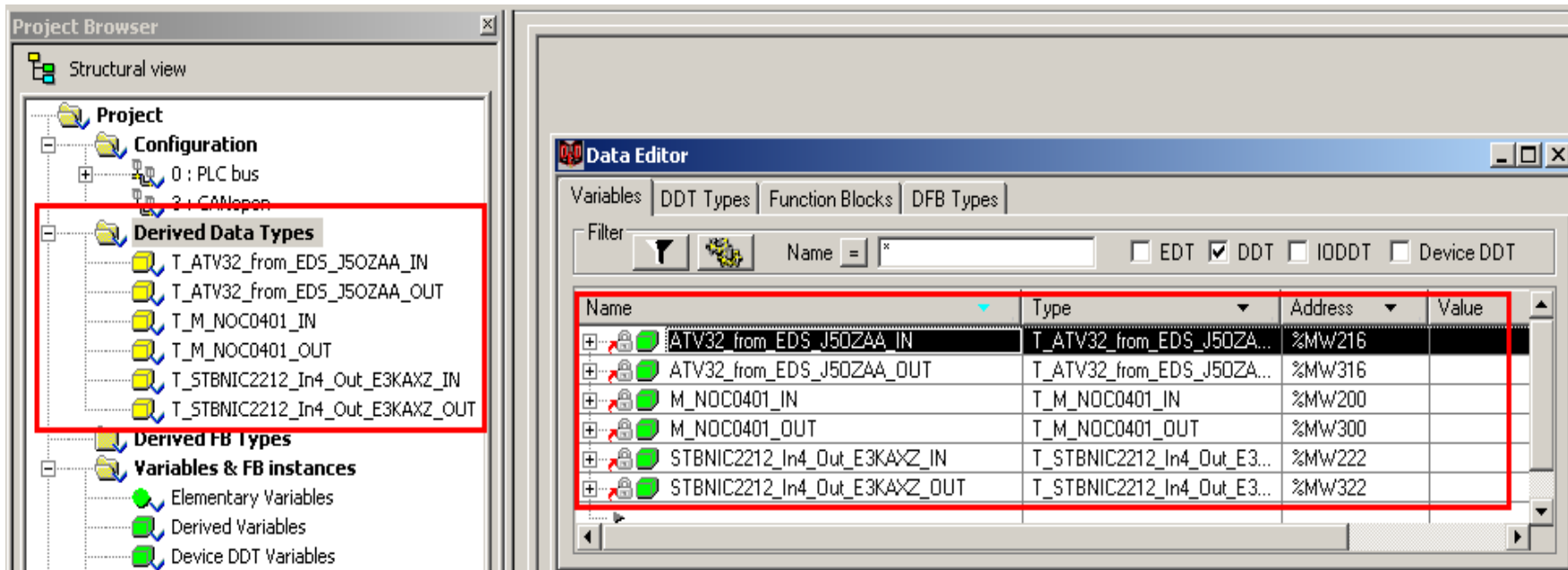
Definir o mapa de variáveis do **STBNIC2212**:



UnityPro

- Data Editor:

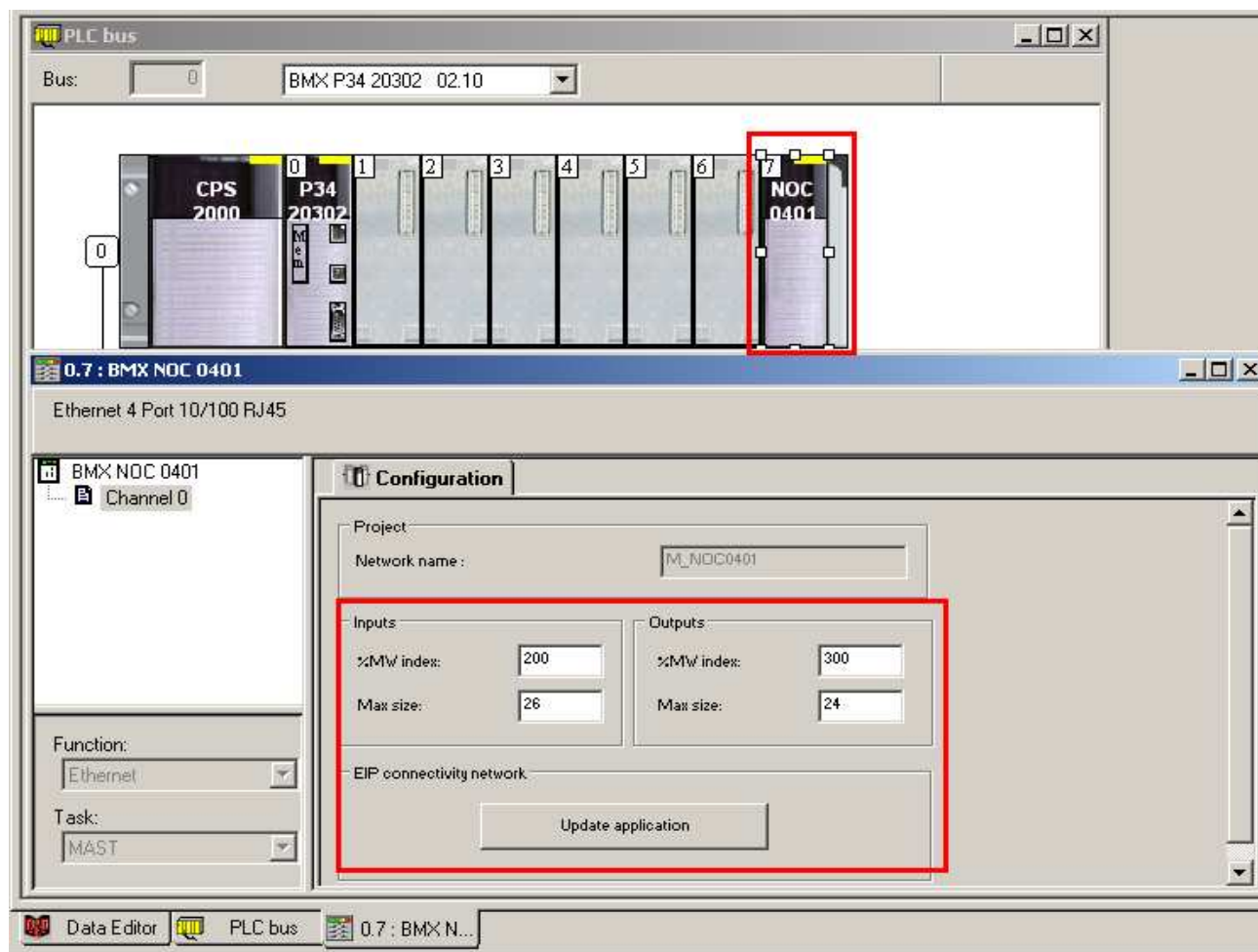
Em Project Browser, nas variáveis estruturadas (*Derived Data Types*), as variáveis de comunicação serão trazidas conforme objetos configurados anteriormente:



UnityPro

- BMXNOC0401:

Configuração dos registros de entrada e saídas para a aplicação do M340:



UnityPro

- Em operação:

The screenshot displays the UnityPro software interface. On the left is the **Project Browser** showing a hierarchical tree of project elements. On the right is the **Variable Declaration Table** with columns for Name, Value, Type, and Comment. Several variables are highlighted with callouts:

- rFr**: Points to `BLOCKB_IB1` with a value of 6.
- ETA (LSB)**: Points to `BLOCKB_IB0` with a value of 16#37.
- CMD**: Points to `BLOCKB_QB0` with a value of 15.
- Target velocity**: Points to `BLOCKB_QB2` with a value of 100.
- Output 1 - STB**: Points to `M3_Channel_1_Output_Data` with a value of 1.

Name	Value	Type	Comment
ATV32_from_EDS_J5OZAA_IN		T_ATV32_from...	
BLOCKB_IB0	16#37	BYTE	
BLOCKB_IB1	6	BYTE	
BLOCKB_IB2	100	BYTE	
BLOCKB_IB3	0	BYTE	
BLOCKB_IB4	100	BYTE	
BLOCKB_IB5	0	BYTE	
BLOCKB_IB6	0	BYTE	
BLOCKB_IB7	0	BYTE	
BLOCKB_IB8	0	BYTE	
BLOCKB_IB9	0	BYTE	
BLOCKB_IB10	0	BYTE	
BLOCKB_IB11	0	BYTE	
ATV32_from_EDS_J5OZAA_OUT		T_ATV32_from...	
BLOCKB_QB0	15	BYTE	
BLOCKB_QB1	0	BYTE	
BLOCKB_QB2	100	BYTE	
BLOCKB_QB3	0	BYTE	
BLOCKB_QB4	0	BYTE	
BLOCKB_QB5	0	BYTE	
BLOCKB_QB6	0	BYTE	
BLOCKB_QB7	0	BYTE	
BLOCKB_QB8	0	BYTE	
BLOCKB_QB9	0	BYTE	
BLOCKB_QB10	0	BYTE	
BLOCKB_QB11	0	BYTE	
STBNIC2212_In4_Out_E3KAXZ_IN		T_STBNIC2212...	
STBNIC2212_In4_Out_E3KAXZ_OUT		T_STBNIC2212...	
Free0	38	BYTE	
M3_Channel_1_Output_Data	0	BOOL	
M3_Channel_2_Output_Data	1	BOOL	