



Nota de aplicação

Descobrimo o endereço de IP de um STBNIP2212

Douglas da Silva

Data: 23/11/16

Versão: V1.0

Especificações técnicas

Especificações Técnicas

Hardware

STBNIP2212

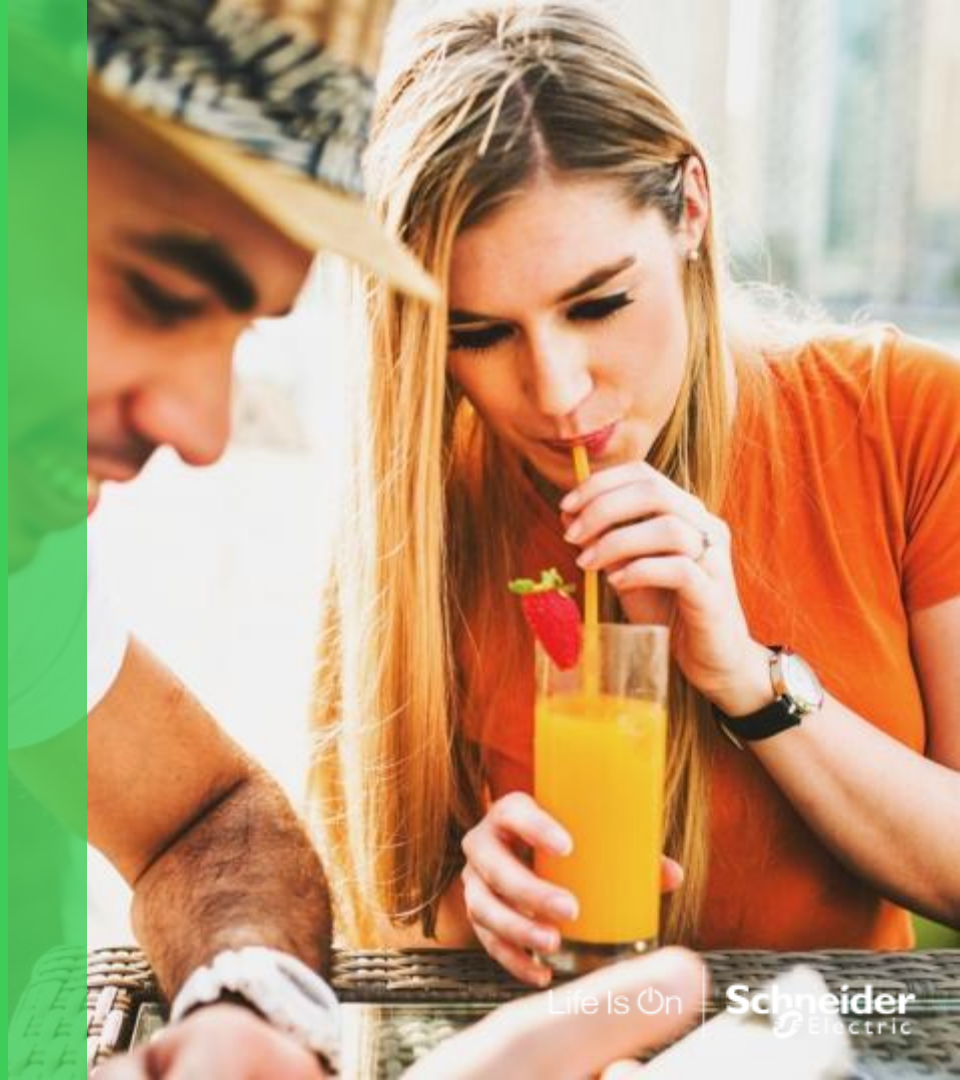
Software

Advantys
Wireshark

Firmware

Versão

V8.1.0.0
V2.2.2



Arquitetura

Arquitetura

Descobrimo o endereço de IP de um STBNIP2212



PC



CABO ETHERNET



STBNIP2212

Nesta nota de aplicação demonstraremos como descobrir o endereço de IP de um STBNIP2212, usando um computador, através do software Wireshark, e iremos conectar através do Advantys. Analisaremos dois casos.

Configuração

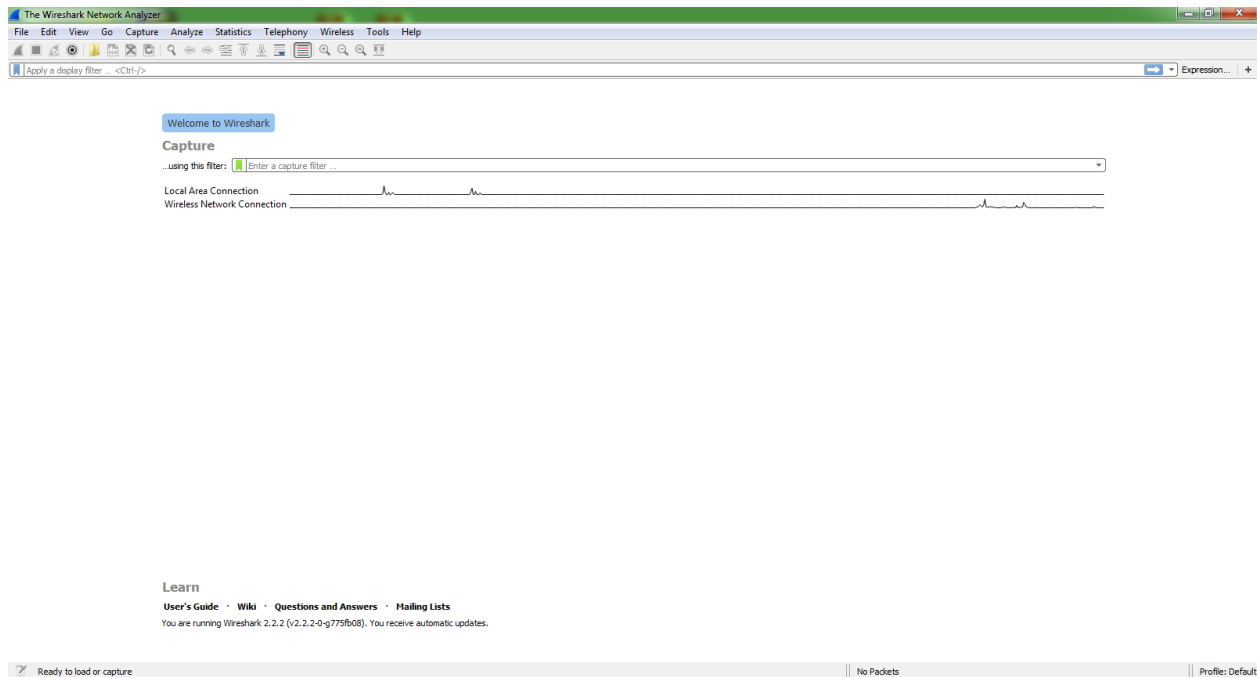
CASO 1 – Endereço de IP verificado no Wireshark igual o endereço de IP calculado pelo Advantys

Wireshark

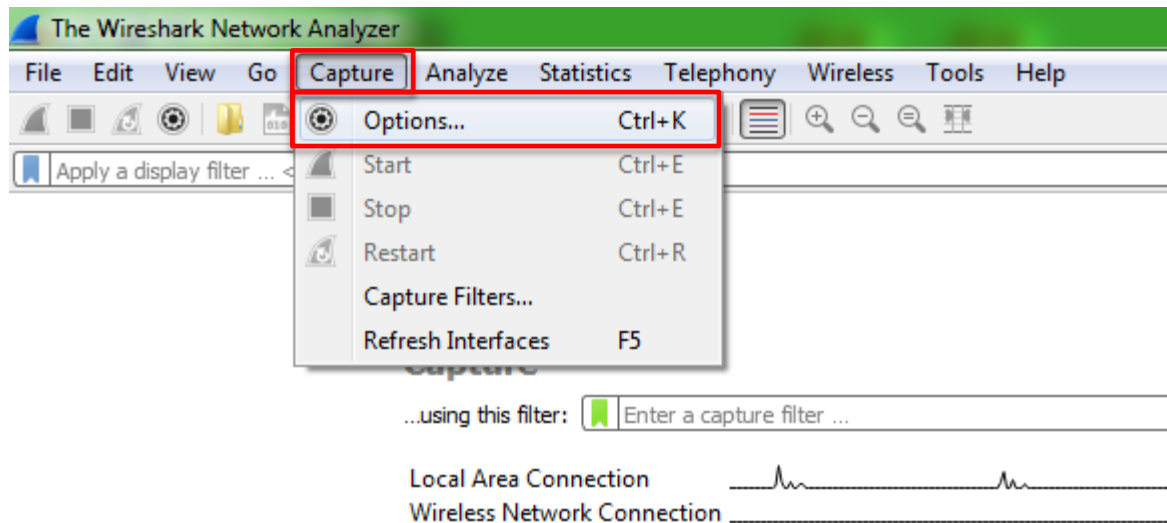
Configuração

CASO 1 - Configurando o Wireshark

Conectar o STBNIP2212 e o PC com o cabo Ethernet e iniciar o Wireshark

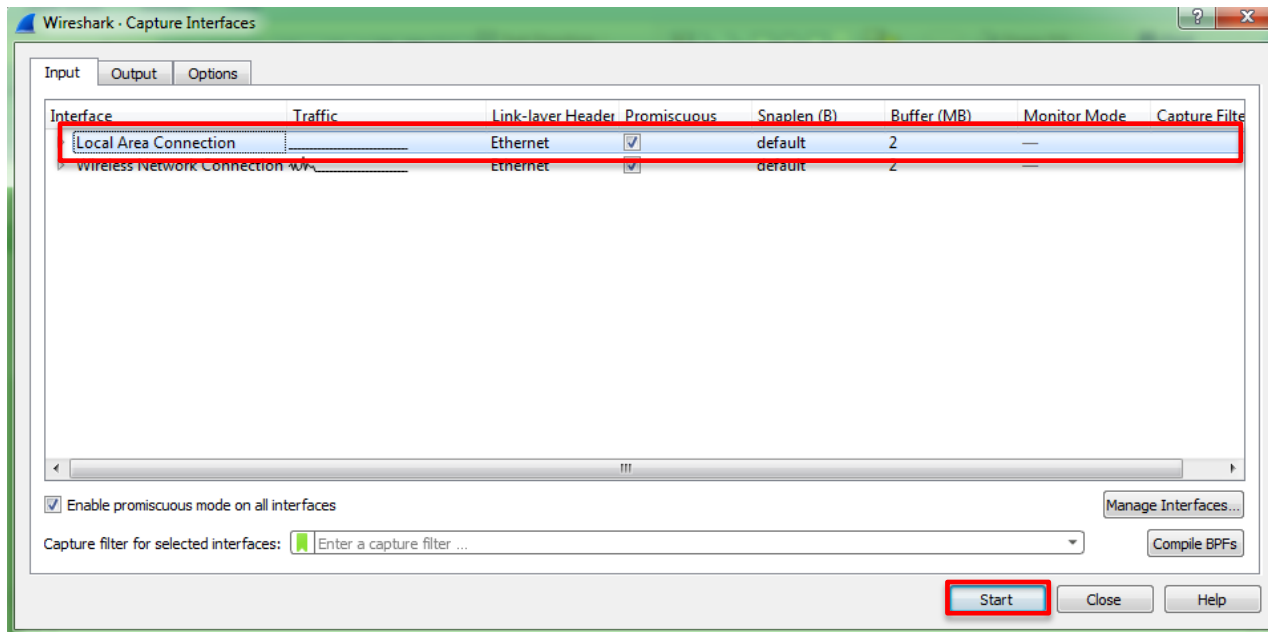


CASO 1 - Configurando o Wireshark



Em seguida, deve-se retirar a alimentação do STB, e, no Wireshark, ir em **Capture → Options**

CASO 1 - Configurando o Wireshark



Na janela que surge, clique em **Local Area Connection** e logo em seguida em **Start**

CASO 1 - Iniciando captura

Capturing from Local Area Connection

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

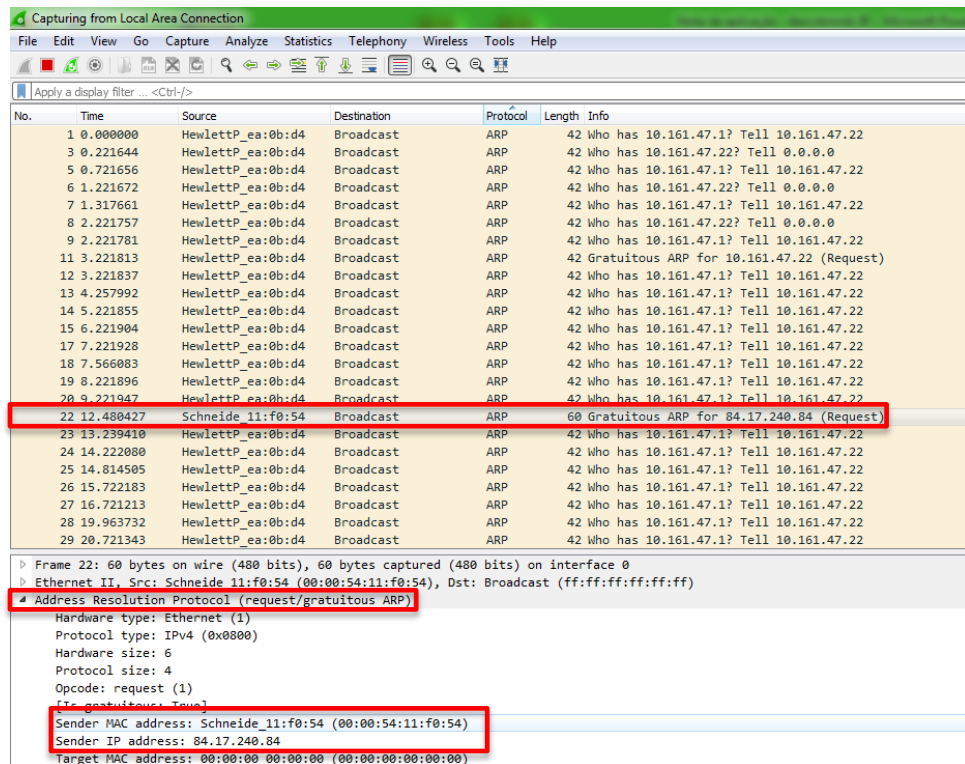
Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
3	0.221644	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.22? Tell 0.0.0.0
5	0.721656	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
6	1.221672	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.22? Tell 0.0.0.0
7	1.317661	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
8	2.221757	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.22? Tell 0.0.0.0
9	2.221781	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
11	3.221813	HewlettP_ea:0b:d4	Broadcast	ARP	42	Gratuitous ARP for 10.161.47.22 (Request)
12	3.221837	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
13	4.257992	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
14	5.221855	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
15	6.221904	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
17	7.221928	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
18	7.566083	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
19	8.221896	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
20	9.221919	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
22	12.480427	Schneide_11:f0:54	Broadcast	ARP	60	Gratuitous ARP for 84.17.240.84 (Request)
23	13.439410	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
24	14.222080	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
25	14.814505	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
26	15.722183	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
27	16.721213	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
28	19.963732	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
29	20.721343	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22

Frame 1: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0
Ethernet II, Src: HewlettP_ea:0b:d4 (10:60:4b:ea:0b:d4), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Address Resolution Protocol (request)

Na tela de captura, reorganize as informações clicando em **Protocol**. E procure pela **Source** que se inicie com o nome **Schneide_**

CASO 1 - Iniciando captura



The image shows a Wireshark network traffic capture. The top menu bar includes File, Edit, View, Go, Capture, Analyze, Statistics, Telephony, Wireless, Tools, and Help. Below the menu is a toolbar with various icons. A display filter is applied: "Apply a display filter ... <Ctrl-/>". The main packet list table shows 29 packets. Packet 22 is highlighted with a red box. The packet details pane on the right shows the selected packet's structure: Ethernet II, Src: Schneide 11:f0:54 (00:00:54:11:f0:54), Dst: Broadcast (ff:ff:ff:ff:ff:ff), and Address Resolution Protocol (request/gratuitous ARP). The ARP details are expanded, showing the Sender MAC address (Schneide 11:f0:54 (00:00:54:11:f0:54)) and Sender IP address (84.17.240.84) highlighted with a red box. The Target MAC address is 00:00:00:00:00:00 (00:00:00:00:00:00).

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
3	0.221644	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.22? Tell 0.0.0.0
5	0.721656	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
6	1.221672	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.22? Tell 0.0.0.0
7	1.317661	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
8	2.221757	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.22? Tell 0.0.0.0
9	2.221781	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
11	3.221813	HewlettP_ea:0b:d4	Broadcast	ARP	42	Gratuitous ARP for 10.161.47.22 (Request)
12	3.221837	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
13	4.257992	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
14	5.221855	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
15	6.221904	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
17	7.221928	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
18	7.566083	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
19	8.221896	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
20	9.221947	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
22	12.480427	Schneide 11:f0:54	Broadcast	ARP	60	Gratuitous ARP for 84.17.240.84 (Request)
23	13.239410	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
24	14.222080	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
25	14.814505	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
26	15.722183	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
27	16.721213	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
28	19.963732	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22
29	20.721343	HewlettP_ea:0b:d4	Broadcast	ARP	42	Who has 10.161.47.1? Tell 10.161.47.22

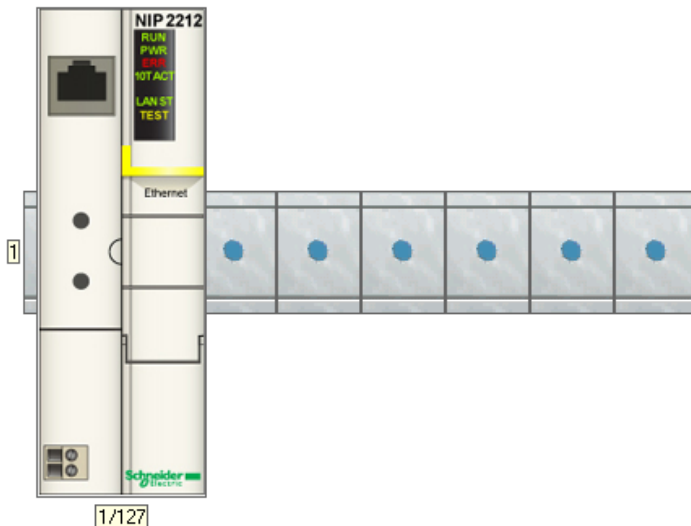
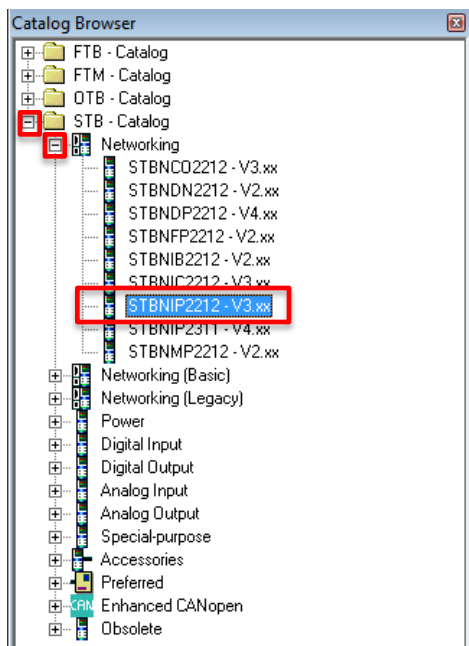
Frame 22: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Schneide 11:f0:54 (00:00:54:11:f0:54), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Address Resolution Protocol (request/gratuitous ARP)
Hardware type: Ethernet (1)
Protocol type: IPv4 (0x0800)
Hardware size: 6
Protocol size: 4
Opcode: request (1)
[request/gratuitous ARP]
Sender MAC address: Schneide 11:f0:54 (00:00:54:11:f0:54)
Sender IP address: 84.17.240.84
Target MAC address: 00:00:00:00:00:00 (00:00:00:00:00:00)

Clique no item **Schneide_** e logo em seguida, expanda o **Address Resolution Protocol**. Procure pelo **Sender MAC Address** e veja se é o mesmo que o do dispositivo

Advantys

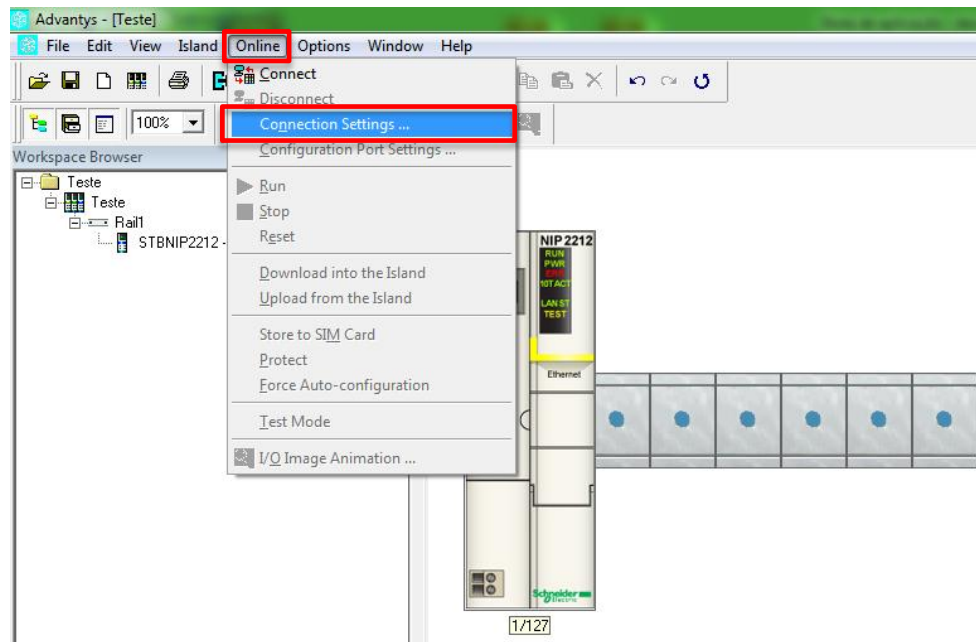
Configuração

CASO 1 - Conectando no Advantys



No Advantys, adicione o dispositivo à área de trabalho. Para isso, no **Catalog Browser**, expanda o **STB – Catalog**, o **Networking** e selecione o **STBNIP2212 – V3xx** e o arraste para a área de trabalho até que fique como a imagem acima

CASO 1 - Conectando no Advantys



Em seguida vá em **Online** e clique em **Connection Settings...**

CASO 1 - Conectando no Advantys

Connection Settings

Connection Type : ☐ Serial ☒ TCP/IP

Parameters

Remote Name:

Remote IP Address:

Modbus Node ID: (1-247 & 255)

IP From MAC

Choose a NIM:

Remote MAC Address:

Caution: The subnet mask of the local PC should be 255.255.255.0

Selecione **TCP/IP** como **Connection Type**, complete os últimos campos do **Remote MAC Address** com os valores do dispositivo em questão e clique em **Calculate**. O valor do IP será mostrado no campo **Remote IP Address**

CASO 1 - Conectando no Advantys

Compare os valores obtidos no Wireshark e no Advantys e observe que são compatíveis

22	12.480427	Schneide_11:f0:54	Broadcast	ARP	60 Gratuitous ARP for 84.17.240.84 (Request)
23	13.239410	HewlettP_ea:0b:d4	Broadcast	ARP	42 Who has 10.161.47.1? Tell 10.161.47.22
24	14.222080	HewlettP_ea:0b:d4	Broadcast	ARP	42 Who has 10.161.47.1? Tell 10.161.47.22
25	14.814505	HewlettP_ea:0b:d4	Broadcast	ARP	42 Who has 10.161.47.1? Tell 10.161.47.22
26	15.722183	HewlettP_ea:0b:d4	Broadcast	ARP	42 Who has 10.161.47.1? Tell 10.161.47.22
27	16.721213	HewlettP_ea:0b:d4	Broadcast	ARP	42 Who has 10.161.47.1? Tell 10.161.47.22
28	19.963732	HewlettP_ea:0b:d4	Broadcast	ARP	42 Who has 10.161.47.1? Tell 10.161.47.22
29	20.721343	HewlettP_ea:0b:d4	Broadcast	ARP	42 Who has 10.161.47.1? Tell 10.161.47.22

> Frame 22: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
> Ethernet II, Src: Schneide_11:f0:54 (00:00:54:11:f0:54), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
* Address Resolution Protocol (request/gratuitous ARP)
 Hardware type: Ethernet (1)
 Protocol type: IPv4 (0x0800)
 Hardware size: 6
 Protocol size: 4
 Opcode: request (1)
 [Is gratuitous: True]
 Sender MAC address: Schneide_11:f0:54 (00:00:54:11:f0:54)
 Sender IP address: 84.17.240.84
 Target MAC address: 00:00:00_00:00:00 (00:00:00:00:00:00)

Connection Settings

Connection Type: ☐ Serial ☒ TCP/IP

Parameters

Remote Name:

Remote IP Address:

Modbus Node ID: (1-247 & 255)

IP From MAC

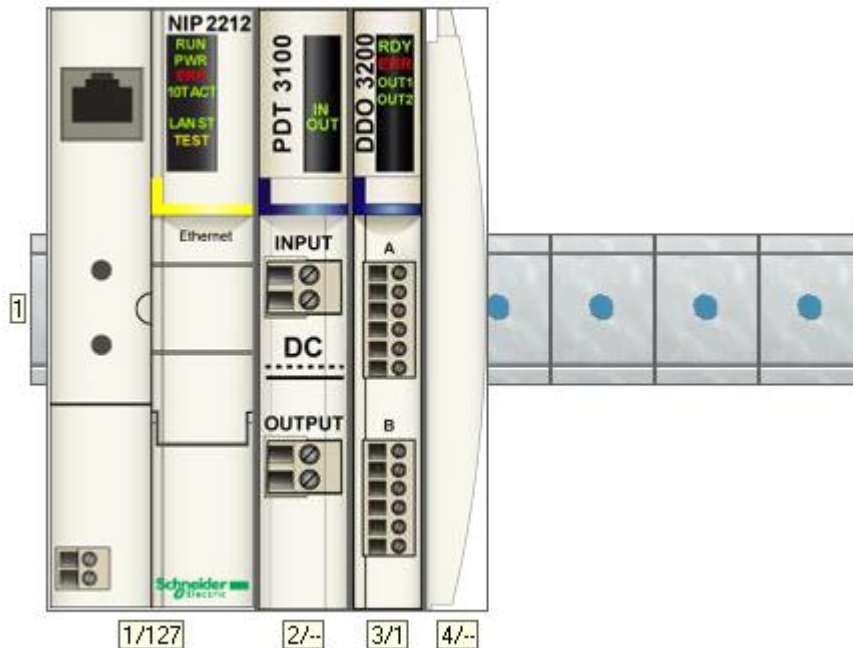
Choose a NIM:

Remote MAC Address:

Caution: The subnet mask of the local PC should be 255.255.255.0

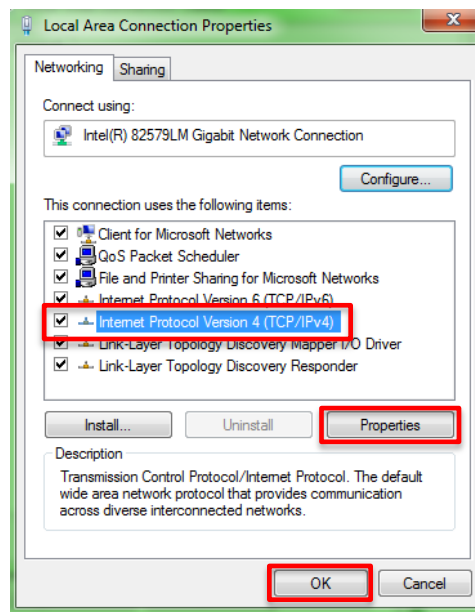
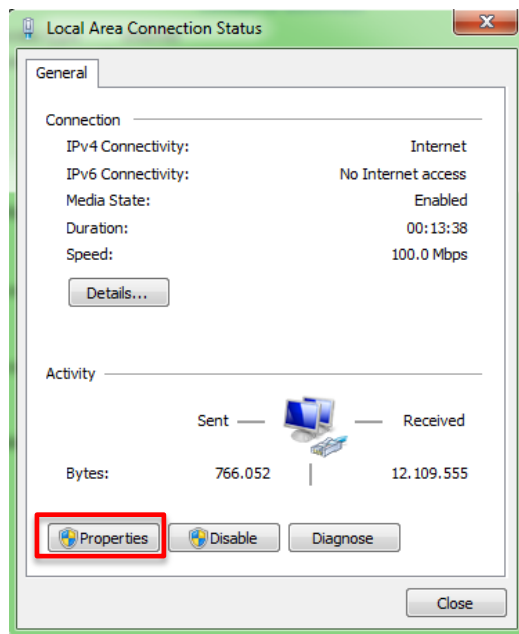
CASO 1 - Conectando no Advantys

Adicione os outros módulos ao dispositivo **(Não esqueça do terminador)**



CASO 1 - Conectando no Advantys

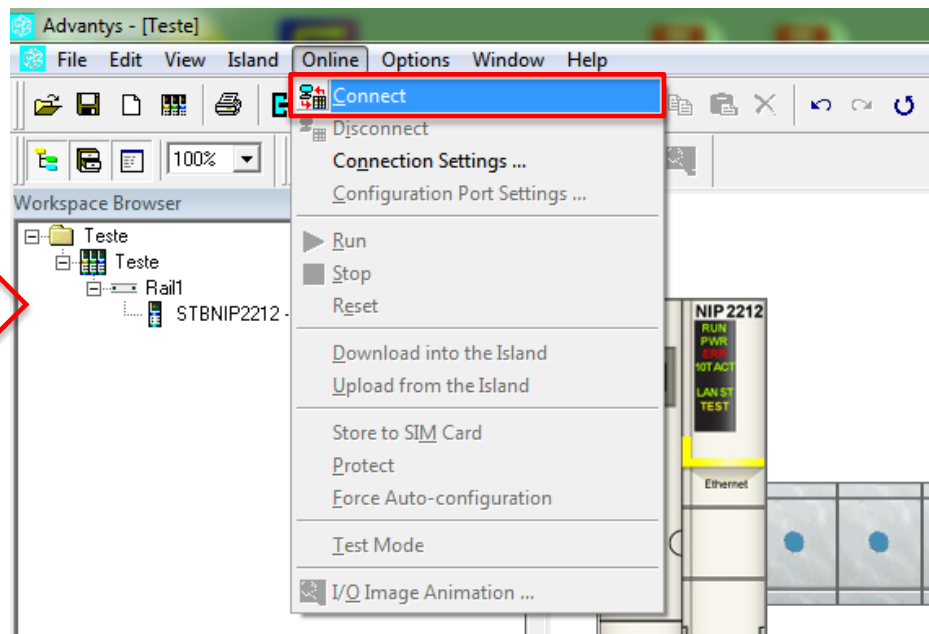
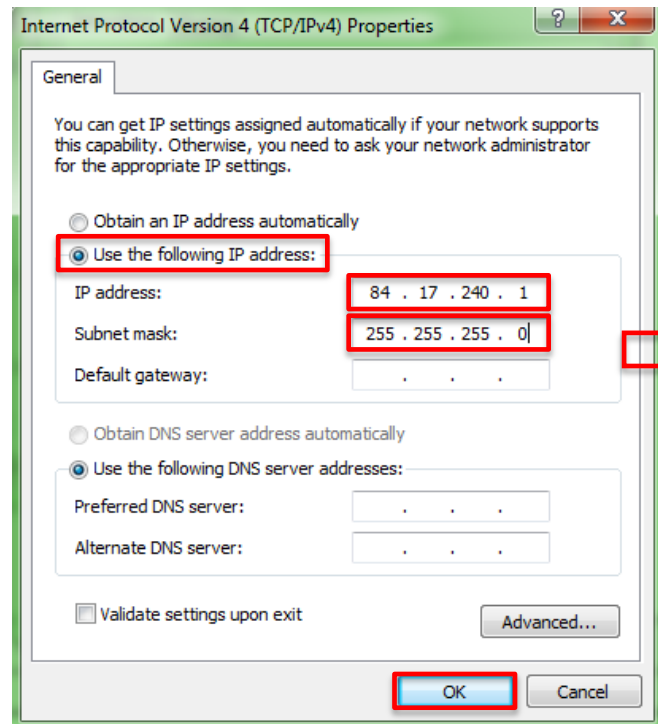
Em seguida deve-se configurar o endereço de IP do computador para ser compatível com o do STB. Acesse a sua **conexão local**, clique em **Properties**, selecione **Internet Protocol Version 4 (TCP/IPv4)** e clique em **Properties**



CASO 1 - Conectando no Advantys

Configure o **endereço de IP** e coloque como **Subnet mask: 255.255.255.0**

Volte ao Advantys, vá em **Online → Connect**



Configuração

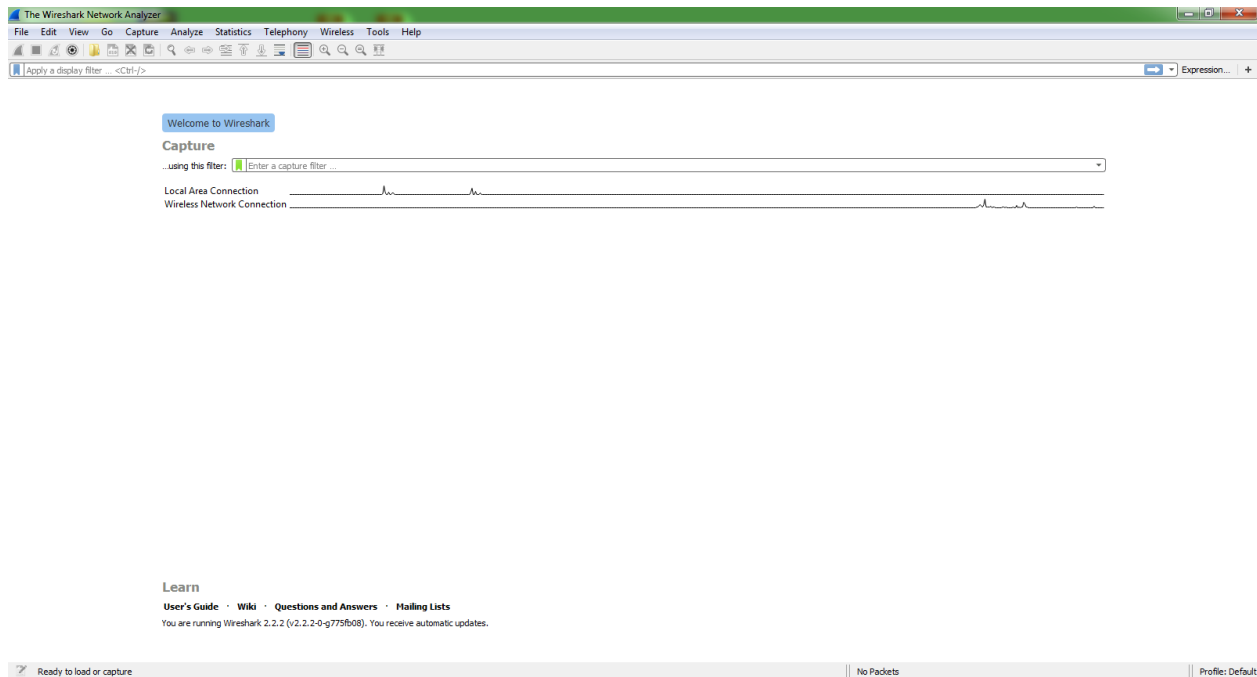
CASO 2 – Endereço de IP verificado no Wireshark diferente do endereço de IP calculado pelo Advantys

Wireshark

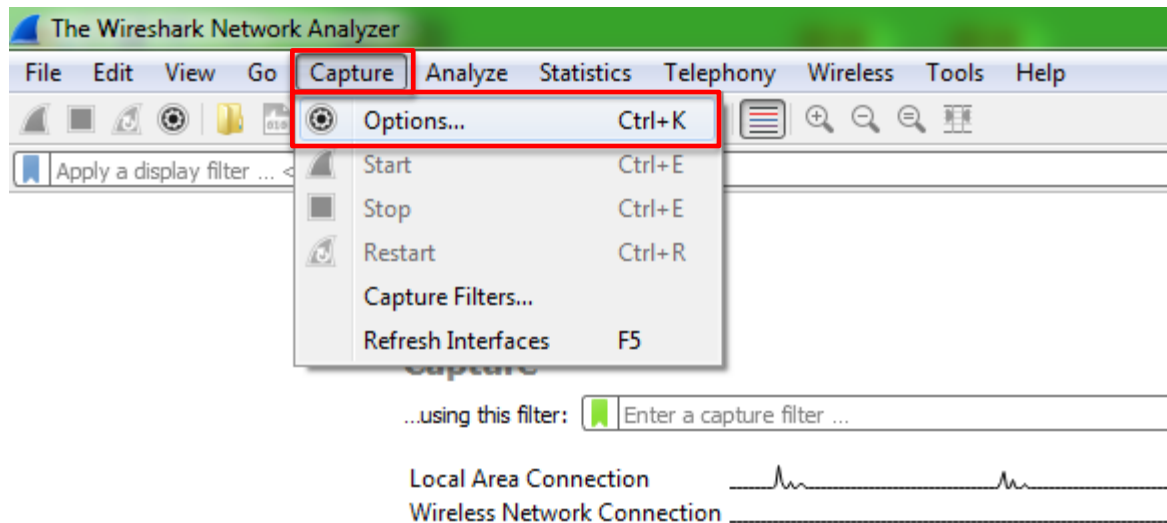
Configuração

CASO 2 - Configurando o Wireshark

Conectar o STBNIP2212 e o PC com o cabo Ethernet e iniciar o Wireshark

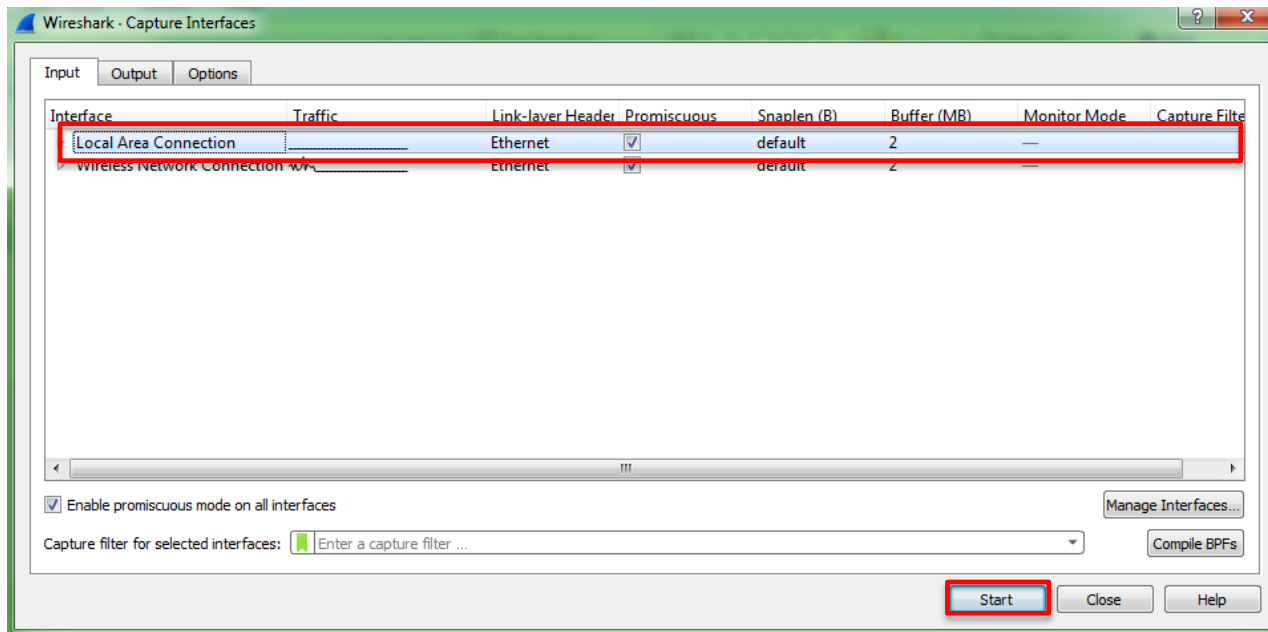


CASO 2 - Configurando o Wireshark



Em seguida, deve-se retirar a alimentação do STB, e, no Wireshark, ir em **Capture → Options**

CASO 2 - Configurando o Wireshark



Na janela que surge, clique em **Local Area Connection** e logo em seguida em **Start**

CASO 2 - Iniciando captura

Capturing from Local Area Connection

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
234	72.925746	HewlettP_ea:0b:d4	Broadcast	ARP	42	Gratuitous ARP for 84.17.240.1 (Request)
325	95.007801	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
326	95.008824	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.1? Tell 84.17.240.84
327	95.008848	HewlettP_ea:0b:d4	Schneide_11:f0:54	ARP	42	84.17.240.1 is at 10:60:4b:ea:0b:d4
334	98.249089	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
339	99.749065	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
344	106.596707	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
349	108.096354	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
359	112.925056	HewlettP_ea:0b:d4	Schneide_11:f0:54	ARP	42	Who has 84.17.240.84? Tell 84.17.240.1
360	112.926286	Schneide_11:f0:54	HewlettP_ea:0b:d4	ARP	68	84.17.240.84 is at 00:00:54:11:f0:54
388	135.373083	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
403	155.019969	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
411	161.441267	Schneide_11:f0:54	Broadcast	ARP	60	Who has 10.161.47.85? Tell 0.0.0.0
412	161.641264	Schneide_11:f0:54	Broadcast	ARP	60	Who has 10.161.47.85? Tell 0.0.0.0
413	161.841395	Schneide_11:f0:54	Broadcast	ARP	60	Who has 10.161.47.85? Tell 0.0.0.0
414	161.923686	HewlettP_ea:0b:d4	Schneide_11:f0:54	ARP	42	Who has 84.17.240.84? Tell 84.17.240.1
415	161.925246	Schneide_11:f0:54	HewlettP_ea:0b:d4	ARP	60	84.17.240.84 is at 00:00:54:11:f0:54
416	162.041446	Schneide_11:f0:54	Broadcast	ARP	60	Who has 10.161.47.85? Tell 0.0.0.0
417	162.242250	Schneide_11:f0:54	Broadcast	ARP	60	Gratuitous ARP for 10.161.47.85 (Request)
30	9.507607	10.161.47.22	10.161.47.127	BROWSER	223	Request Announcement W7BR73995D
31	9.521412	10.161.47.22	10.161.47.127	BROWSER	243	Host Announcement W7BR73995D, Workstation, Serve
33	11.007684	10.161.47.22	10.161.47.127	BROWSER	223	Request Announcement W7BR73995D
35	12.507782	10.161.47.22	10.161.47.127	BROWSER	223	Request Announcement W7BR73995D
39	14.007877	10.161.47.22	10.161.47.127	BROWSER	223	Request Announcement W7BR73995D

▶ Frame 417: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
▶ Ethernet II, Src: Schneide_11:f0:54 (00:00:54:11:f0:54), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
▶ Address Resolution Protocol (request/gratuitous ARP)

Na tela de captura, reorganize as informações clicando em **Protocol**. E procure pela última **Source** que se inicie com o nome **Schneide_**

CASO 2 - Iniciando captura

The screenshot shows the Wireshark interface with a packet capture on the Local Area Connection. The packet list on the left shows several ARP requests from the source MAC 00:00:54:11:f0:54. Packet 417 is highlighted with a red box. The packet details pane on the right shows the selected packet's structure, with the 'Address Resolution Protocol (request/gratuitous ARP)' section expanded. The 'Sender MAC address' is highlighted with a red box, showing 'Schneide_11:f0:54 (00:00:54:11:f0:54)'. The 'Sender IP address' is also highlighted, showing '10.161.47.85'.

No.	Time	Source	Destination	Protocol	Length	Info
234	72.925746	HewlettP_ea:0b:d4	Broadcast	ARP	42	Gratuitous ARP for 84.17.240.1 (Request)
325	95.007801	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
326	95.008824	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.1? Tell 84.17.240.84
327	95.008848	HewlettP_ea:0b:d4	Schneide_11:f0:54	ARP	42	84.17.240.1 is at 10:60:4b:ea:0b:d4
334	98.249089	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
339	99.749065	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
344	106.596707	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
349	108.096354	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
359	112.925056	HewlettP_ea:0b:d4	Schneide_11:f0:54	ARP	42	Who has 84.17.240.84? Tell 84.17.240.1
360	112.926286	Schneide_11:f0:54	HewlettP_ea:0b:d4	ARP	68	84.17.240.84 is at 00:00:54:11:f0:54
388	135.373083	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
403	155.019969	Schneide_11:f0:54	Broadcast	ARP	60	Who has 84.17.240.255? Tell 84.17.240.84
411	161.441267	Schneide_11:f0:54	Broadcast	ARP	60	Who has 10.161.47.85? Tell 0.0.0.0
412	161.641264	Schneide_11:f0:54	Broadcast	ARP	60	Who has 10.161.47.85? Tell 0.0.0.0
413	161.841395	Schneide_11:f0:54	Broadcast	ARP	60	Who has 10.161.47.85? Tell 0.0.0.0
414	161.923686	HewlettP_ea:0b:d4	Schneide_11:f0:54	ARP	42	Who has 84.17.240.84? Tell 84.17.240.1
415	161.925246	Schneide_11:f0:54	HewlettP_ea:0b:d4	ARP	60	84.17.240.84 is at 00:00:54:11:f0:54
416	162.041446	Schneide_11:f0:54	Broadcast	ARP	60	Who has 10.161.47.85? Tell 0.0.0.0
417	162.242250	Schneide_11:f0:54	Broadcast	ARP	60	Gratuitous ARP for 10.161.47.85 (Request)
30	9.507607	10.161.47.22	10.161.47.127	BROWSER	223	Request Announcement W7BR73995D
31	9.521412	10.161.47.22	10.161.47.127	BROWSER	243	Host Announcement W7BR73995D, Workstation, Ser
33	11.007684	10.161.47.22	10.161.47.127	BROWSER	223	Request Announcement W7BR73995D
35	12.507782	10.161.47.22	10.161.47.127	BROWSER	223	Request Announcement W7BR73995D
39	14.007877	10.161.47.22	10.161.47.127	BROWSER	223	Request Announcement W7BR73995D

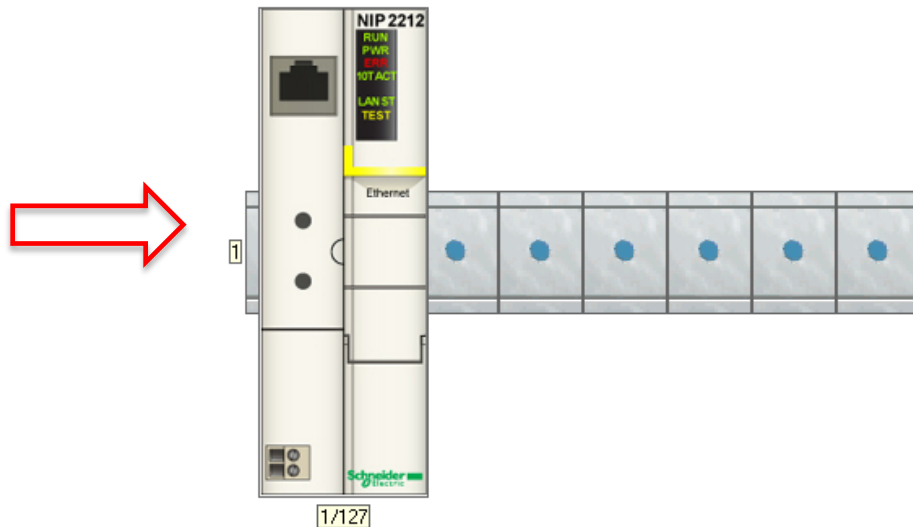
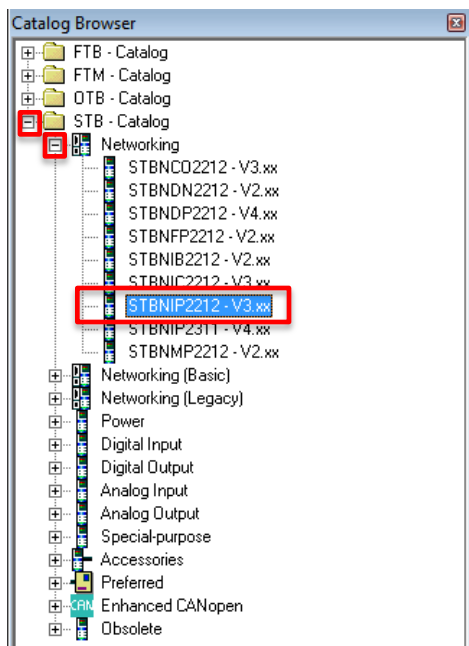
Frame 417: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: Schneide_11:f0:54 (00:00:54:11:f0:54), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Address Resolution Protocol (request/gratuitous ARP)
Hardware type: Ethernet (1)
Protocol type: IPv4 (0x0800)
Hardware size: 6
Protocol size: 4
Opcode: request (1)
[Is gratuitous: True]
Sender MAC address: Schneide_11:f0:54 (00:00:54:11:f0:54)
Sender IP address: 10.161.47.85
Target MAC address: 00:00:00:00:00:00 (00:00:00:00:00:00)

Clique no item **Schneide_** e logo em seguida, expanda o **Address Resolution Protocol**. Procure pelo **Sender MAC Address** e veja se é o mesmo que o do dispositivo

Advantys

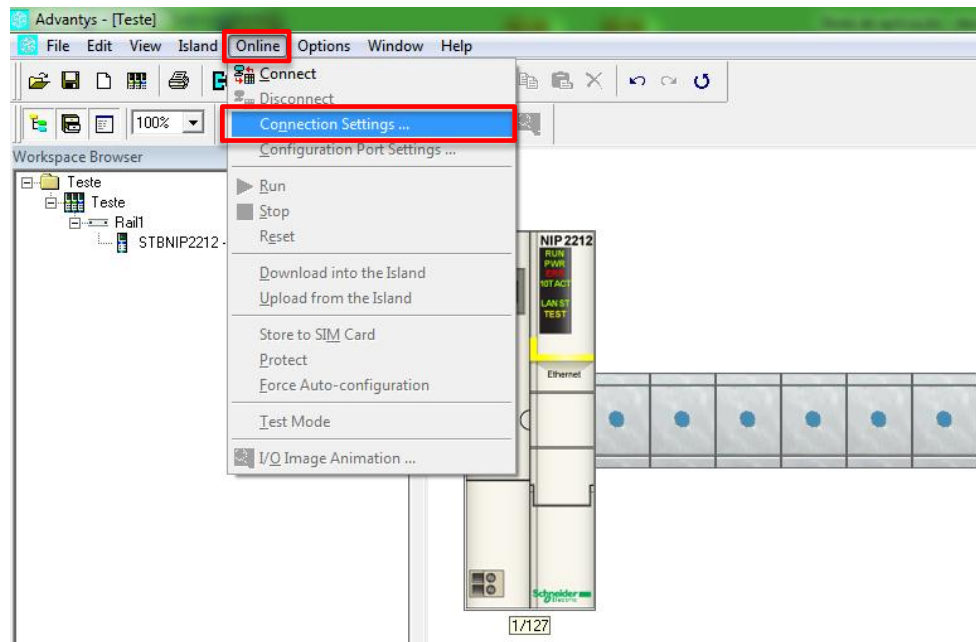
Configuração

CASO 2 - Conectando no Advantys



No Advantys, adicione o dispositivo à área de trabalho. Para isso, no **Catalog Browser**, expanda o **STB – Catalog**, o **Networking** e selecione o **STBNIP2212 – V3xx** e o arraste para a área de trabalho até que fique como a imagem acima

CASO 2 - Conectando no Advantys



Em seguida vá em **Online** e clique em **Connection Settings...**

CASO 2 - Conectando no Advantys

Connection Settings

Connection Type : ☐ Serial ☒ TCP/IP

Parameters

Remote Name:

Remote IP Address:

Modbus Node ID: (1-247 & 255)

IP From MAC

Choose a NIM:

Remote MAC Address:

Caution: The subnet mask of the local PC should be 255.255.255.0

Selecione **TCP/IP** como **Connection Type**, complete os últimos campos do **Remote MAC Address** com os valores do dispositivo em questão e clique em **Calculate**. O valor do IP será mostrado no campo **Remote IP Address**

CASO 2 - Conectando no Advantys

Compare os valores obtidos no Wireshark e no Advantys e observe que não são compatíveis. Altere o valor do campo **Remote IP Address** do Advantys para o valor obtido no Wireshark e clique em **Apply**

443	10.161.47.85	Schneide_11:f0:54	Broadcast	ARP	60 Who has 10.161.47.85? Tell 0.0.0.0
414	161.923686	HewlettP_ea:0b:d4	Schneide_11:f0:54	ARP	42 Who has 84.17.240.84? Tell 84.17.240.1
415	161.925246	Schneide_11:f0:54	HewlettP_ea:0b:d4	ARP	60 84.17.240.84 is at 00:00:54:11:f0:54
416	162.041446	Schneide_11:f0:54	Broadcast	ARP	60 Who has 10.161.47.85? Tell 0.0.0.0
417	162.242250	Schneide_11:f0:54	Broadcast	ARP	60 Gratuitous ARP for 10.161.47.85 (Request)
30	9.507607	10.161.47.22	10.161.47.127	BROWSER	223 Request Announcement W7BR73995D
31	9.521412	10.161.47.22	10.161.47.127	BROWSER	243 Host Announcement W7BR73995D, Workstation, Server, NT
33	11.007684	10.161.47.22	10.161.47.127	BROWSER	223 Request Announcement W7BR73995D
35	12.507782	10.161.47.22	10.161.47.127	BROWSER	223 Request Announcement W7BR73995D
39	14.007877	10.161.47.22	10.161.47.127	BROWSER	223 Request Announcement W7BR73995D

▶ Frame 417: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
▶ Ethernet II, Src: Schneide_11:f0:54 (00:00:54:11:f0:54), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
▶ Address Resolution Protocol (request/gratuitous ARP)
Hardware type: Ethernet (1)
Protocol type: IPv4 (0x0800)
Hardware size: 6
Protocol size: 4
Opcode: request (1)
[Is gratuitous: True]
Sender IP address: 10.161.47.85
Target MAC address: 00:00:00:00:00:00 (00:00:00:00:00:00)

Connection Settings

Connection Type: ☐ Serial ☒ TCP/IP

Parameters

Remote Name:

Remote IP Address:

Modbus Node ID: (1-247 & 255)

IP From MAC

Choose a NIM:

Remote MAC Address:

Caution: The subnet mask of the local PC should be 255.255.255.0



Connection Settings

Connection Type: ☐ Serial ☒ TCP/IP

Parameters

Remote Name:

Remote IP Address:

Modbus Node ID: (1-247 & 255)

IP From MAC

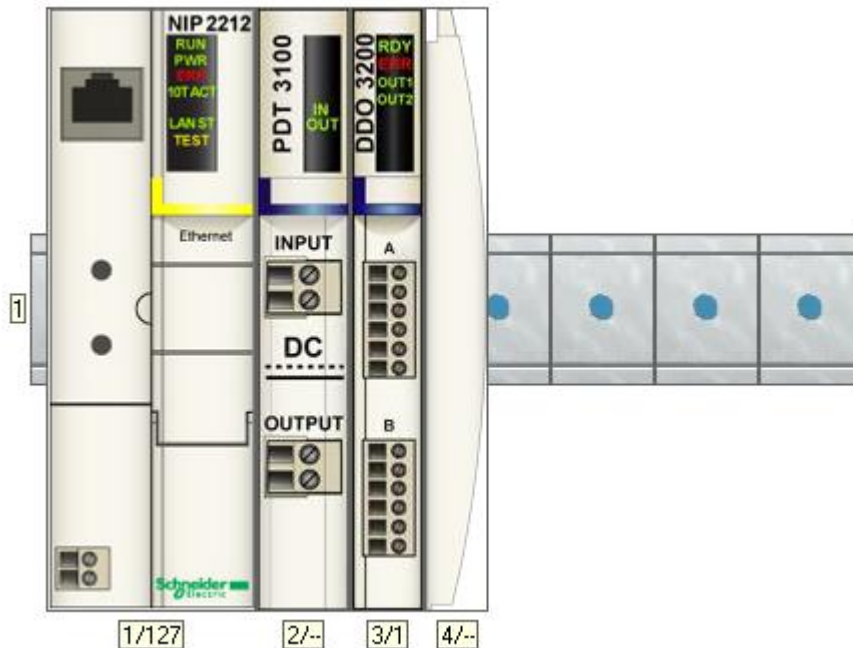
Choose a NIM:

Remote MAC Address:

Caution: The subnet mask of the local PC should be 255.255.255.0

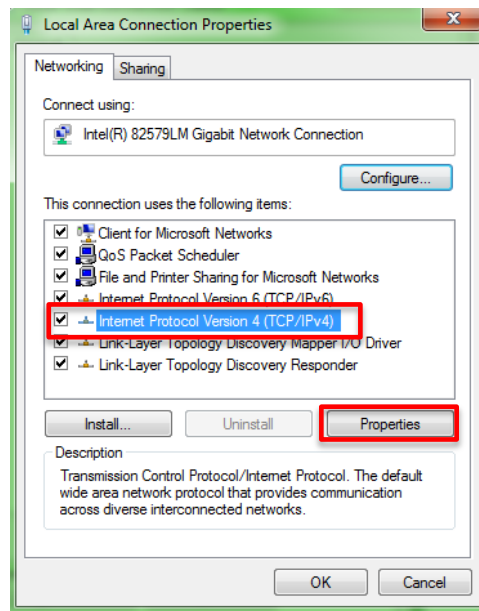
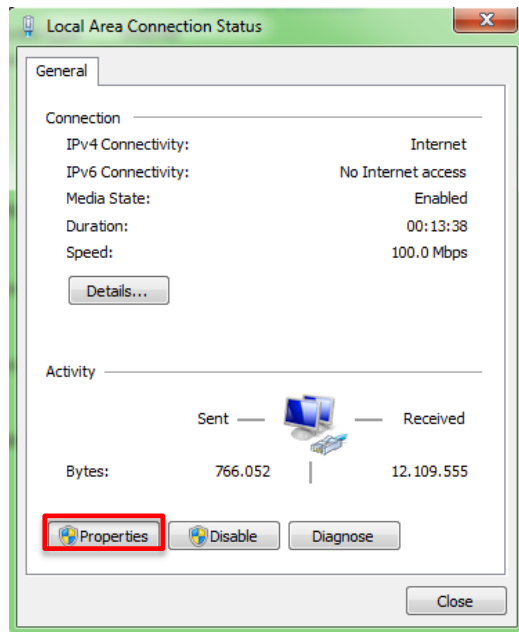
CASO 2 - Conectando no Advantys

Adicione os outros módulos ao dispositivo **(Não esqueça do terminador)**



CASO 2 - Conectando no Advantys

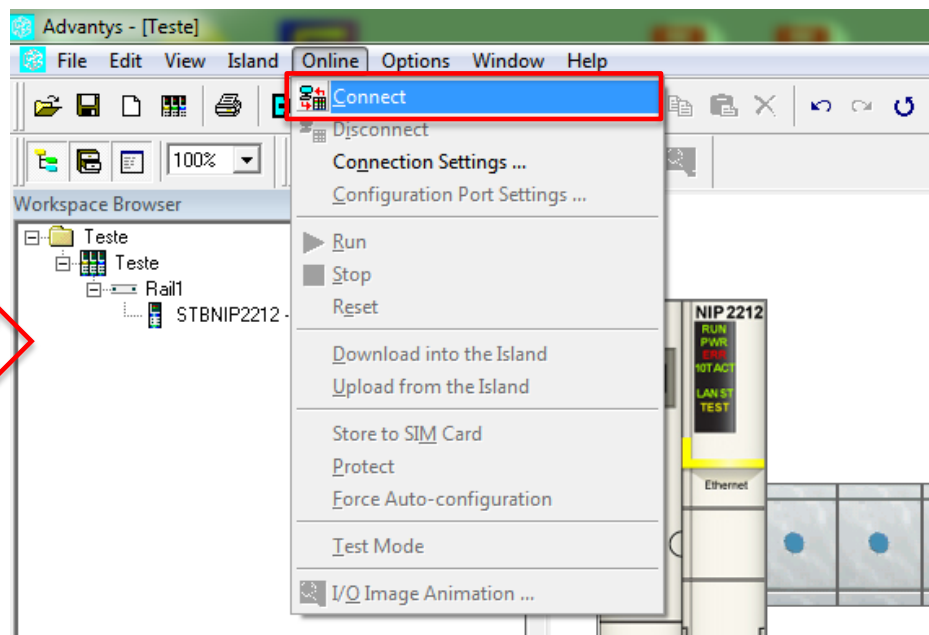
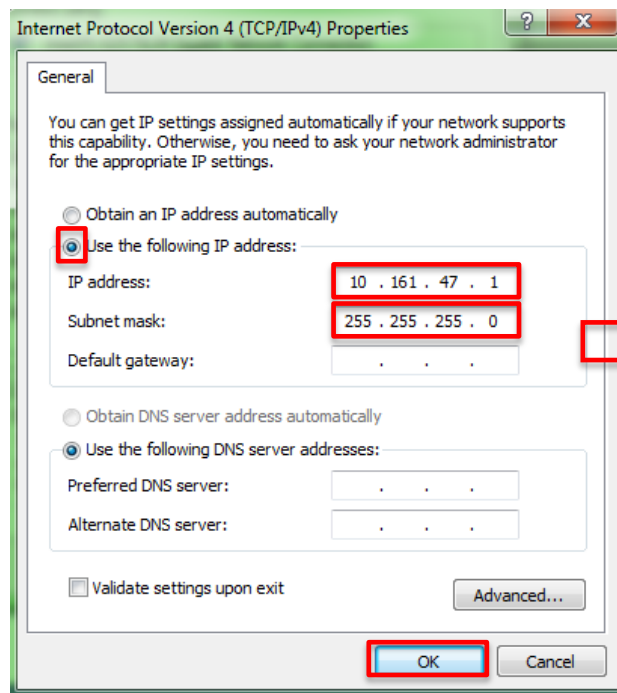
Em seguida deve-se configurar o endereço de IP do computador para ser compatível com o do STB. Acesse a sua **conexão local**, clique em **Properties**, selecione **Internet Protocol Version 4 (TCP/IPv4)** e clique em **Properties**



CASO 2 - Conectando no Advantys

Configure o **endereço de IP** e coloque como **Subnet mask: 255.255.255.0**

Volte ao Advantys, vá em **Online** → **Connect**



Avisos Importantes

- Equipamentos elétricos devem ser instalados, operados e manuseados apenas por profissionais qualificados;
- Um profissional qualificado é aquele que possui habilidades e conhecimentos relacionados com a construção, instalação e operação que equipamentos elétricos, e recebeu treinamento adequado para reconhecer e evitar os perigos envolvidos;
- Nenhuma responsabilidade é assumida pela Schneider Electric por qualquer consequências decorrentes da utilização deste material. O uso do mesmo não dispensa a utilização do manual;
- Todas as informações contidas neste documento estão de acordo com o conhecimento do autor. Esta abordagem foi projetada e testada em condições de laboratório. O ambiente de instalação e/ou reprodução desta abordagem pode influenciar o comportamento de dispositivos eletrônicos e, portanto, o usuário assume toda a responsabilidade para aplicar as soluções apresentadas;
- Este documento está disponível no site <http://www.schneider-electric.com>

Life Is On



Schneider
Electric