AYBEY ELEKTRONIK

AYBEYNET

INSTALLATION MANUAL

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VERSION : 1.2

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AYBEYNET is a computer lift interface program developed by AYBEY that allows

- Observing Lift Motions,
- Analyzing Error Lists,
- Parameter Setting,
- Checking Active Inputs-Outputs and Timers,
- Saving / Loading Parameters.

ETN Board Settings for Ethernet Connection

Energize control panel after making Ethernet connections of modem/switch, control panel and computer. Run AYBEYNET.exe and Ethernet files that you downloaded to your computer from http://maeslift.de/en/support/lift-control-system-application-software/ or CD before. Setup programs and restart your computer after setup if required. Enter Start-Programs-Tibbo-DS Manager for ETN board settings. When DS Manager starts, select Auto Discovery window and ETN board displays with blue color on Auto Discovery window. (Accept firewall to run DS manager)

Select ETN board from window and click Settings button for parameter settings,

NETWORK

Owner Name	*Enter Company Name (eg Aybey)*
Device Name	*Enter Board Name (eg Flower Building)*
MAC Address	*Do not change*
DHCP	Disabled
IP-address	*Set IP Address Convenient to Your Local Network (eg. If Your Computer IP Address is **192.168.1.**6, enter **192.168.1.**90)*
Port	*Enter a number between 1000-1999 (Set different port number to ETN boards in same network)*
Registration at dDNS Server	Disabled
Auto Registration On Link Server	Disabled
PPPoE Mode	Disabled
Gateway IP Address	*Leave Empty*
Subnet Mask	*Leave Empty*

CONNECTION

Connection Timeout (min)	5
Transport Protocol	UDP
Broadcast UDP Data	Reject
Routing Mode	Server
Accept Connection From	Any IP Address
Notification Destination	Last Port

SERIAL PORT

Serial Interface	Automatic
RTS/CTS Flow Control	Disabled or Remote
DTR Mode	Idle or Remote
Baud Rate	57600
Parity	None
Data Bits	1-8
Soft Entry into Serial Programmer	Disabled
On-The-Fly Commands	Enabled
Password for On-The-Fly Command	Disabled
Notification Bitmask	0

OUTBOUND PACKETS

Max Packet Length	255
Max Intercharacter Delay	1
Start on Any Character	Yes
Use Start Character	No
Start Character ASCII Code	0
Use Stop Character	No
Stop Character ASCII Code	0
Number of Post-Characters	0

After module settings, icon color becomes dark blue.

Virtual Port Definition to Lift via Ethernet

For virtual port definition, run Start-Programs-Tibbo-Connection Wizard program.

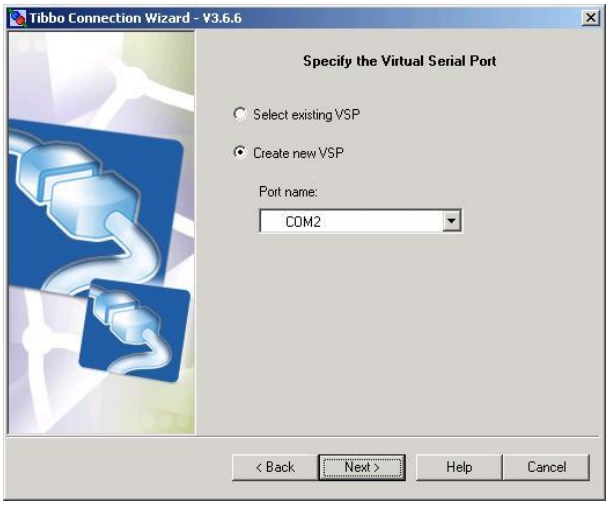
Next

Select *Create a link between a Virtual Serial Port and a Device Server*

Next

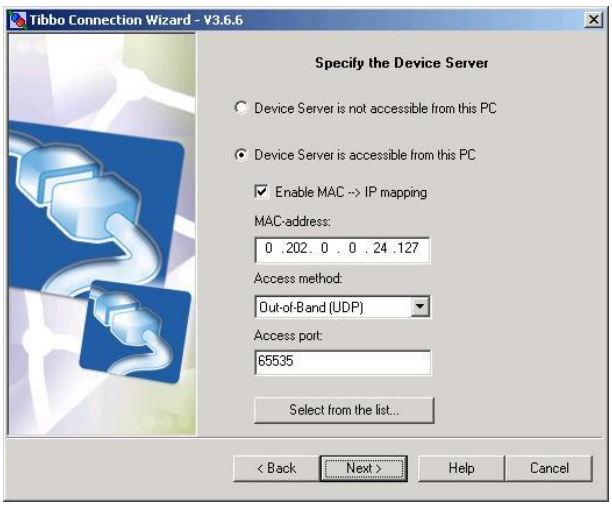
Define a new virtual port by *Create new VSP*

Select a free port name and take note of it (COM1, COM2, etc)



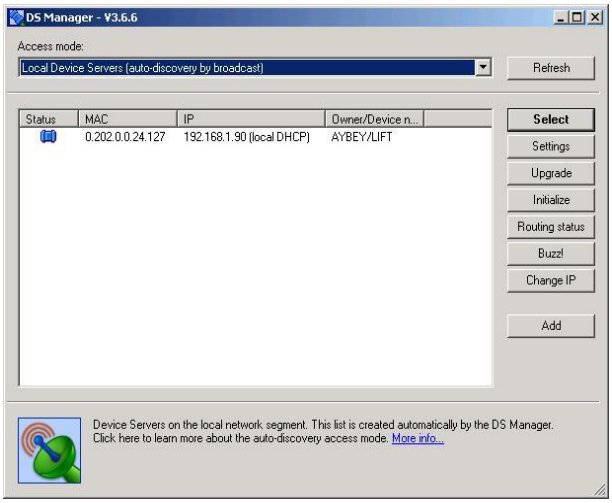
Next

Select *Device Server is accessible from this PC*



Enter *Select From The List* button

Select module from the screen and press *Select* button

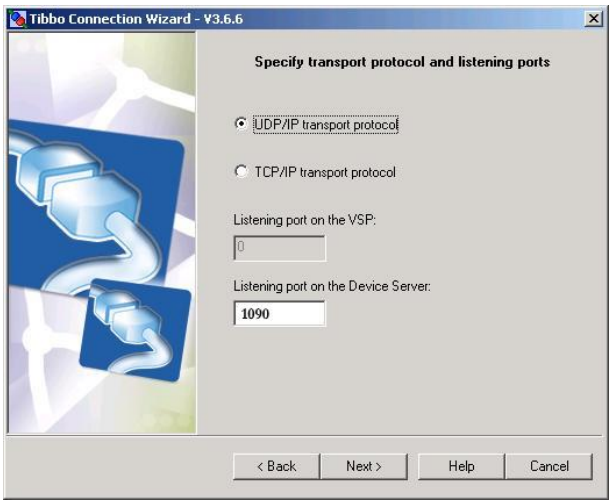


Next

Select *Virtual Serial Port*

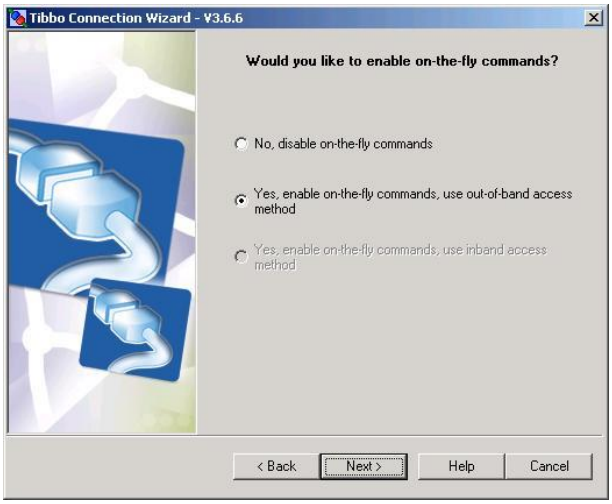
Next

Select *UDP/IP transport protocol*

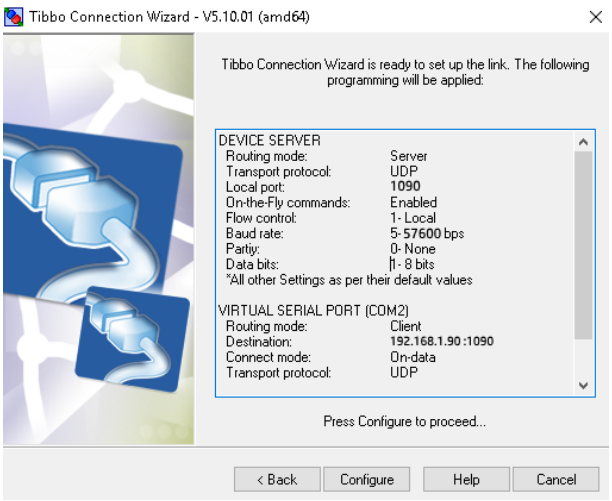


Next

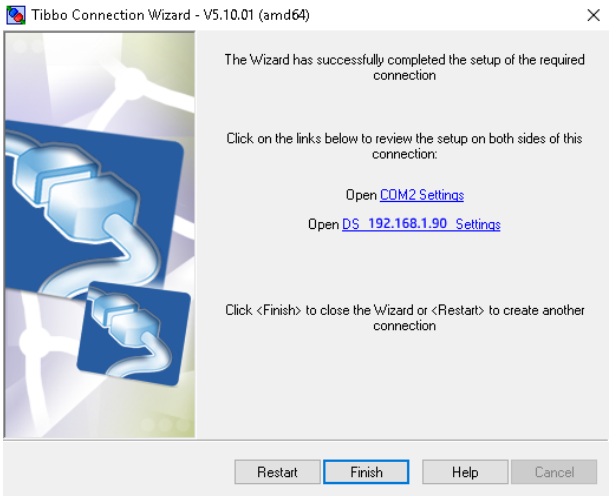
Select *Yes, enable on-the-fly commands, use out-of-band access method*



Next



Configure



For more than one connections click *Restart*, select new *port name* in *Specify the Virtual Serial Port* window and apply same processes. *Click Finish* for quit program.

Virtual Port Definition Via Internet Connection

Firstly set ETN Board parameters by a computer connected directly or via LAN to lift that defined above. After that, get modem WAN IP address and forward port on port forwarding menu of modem. (Visit www.whatismyip.com to get WAN IP

ADSL Modem Port Forwarding

Enter port forwarding menu on modem to forward 2 ports (for 1 ETN board). One of them is ETN board port, set in DS Manager and the other is 65535. Forward these ports to IP Address of ETN board that defined in ETN Board settings. (Use modem user manual for detailed information about port forwarding)

For example IP Address of ETN board is 192.168.1.90 and port is 1090. Set these settings for port forwarding.

Port : 1090	IP : 192.168.1.90	Protocol : UDP
Port : 65535	IP : 192.168.1.90	Protocol : UDP

In some modem, port forwarding settings has Start Port and Stop Port items. If exists set like this.

Start Port : 1090	Stop Port : 1090	IP : 192.168.1.90	Protocol : UDP
Start Port : 65535	Stop Port : 65535	IP : 192.168.1.90	Protocol : UDP

For example, there is 2 lift in your system, and one of IP is 192.168.1.90 and the other is 192.168.1.91, set port forwarding as below:

Start Port : 1090	Stop Port : 1090	IP : 192.168.1.90	Protocol : UDP
Start Port : 65535	Stop Port : 65535	IP : 192.168.1.90	Protocol : UDP
Start Port : 1091	Stop Port : 1091	IP : 192.168.1.91	Protocol : UDP
Start Port : 65535	Stop Port : 65535	IP : 192.168.1.91	Protocol : UDP

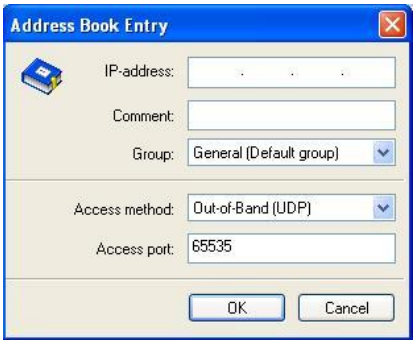
NOTE : If your modem not allows forwarding one port to multi IP address, forward 65535 port to only one IP address (ETN IP address).

Now save changes and restart your modem.

After complete all settings on lift area side, set the parameters on computer side which will connect via Internet.

Make Internet connections to your computer and run Start-Programs-Tibbo-DS Manager. Select Address Book window and click Add button and Address Book Entry window displays. In Address Book Entry window

IP-address *Enter ADSL modem WAN IP*
Comment *Leave empty*
Group General (Default group)
Access method Out-of-Band (UDP)
Access port 65535

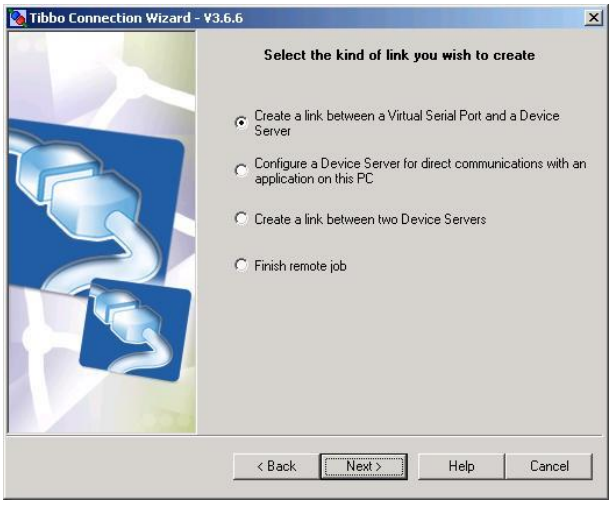


Click OK Button and module displays in blue color. If question mark is displays, there is a mistake on port forwarding or firewall denies ETN Board operations.

For virtual port definition, run Connection Wizard program.

Next

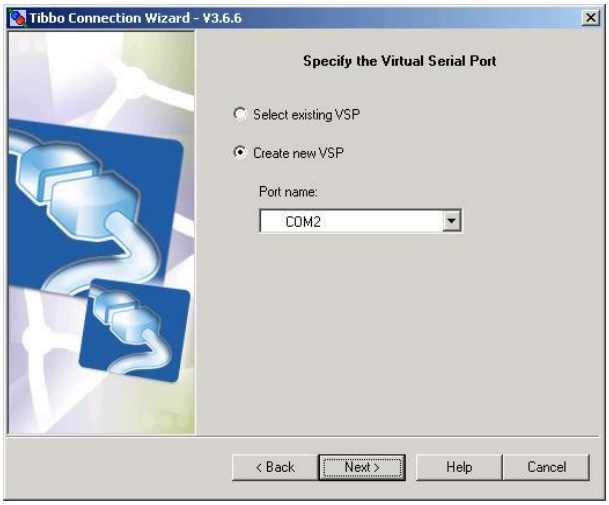
Select *Create a link between a Virtual Serial Port and a Device Server*



Next

Define new virtual port by *Create new VSP*

Select a free port name and take note of it



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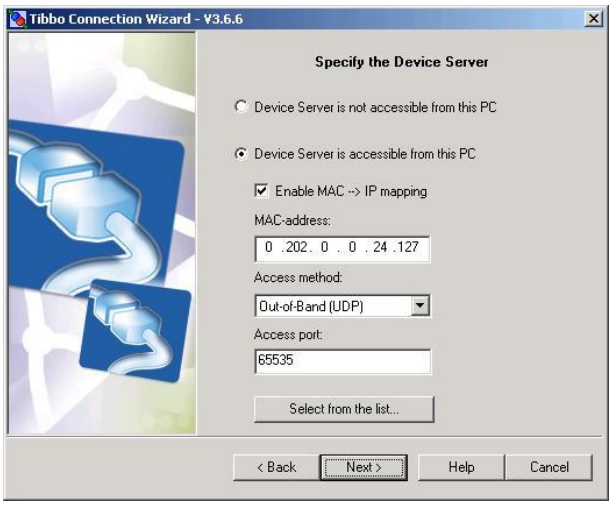
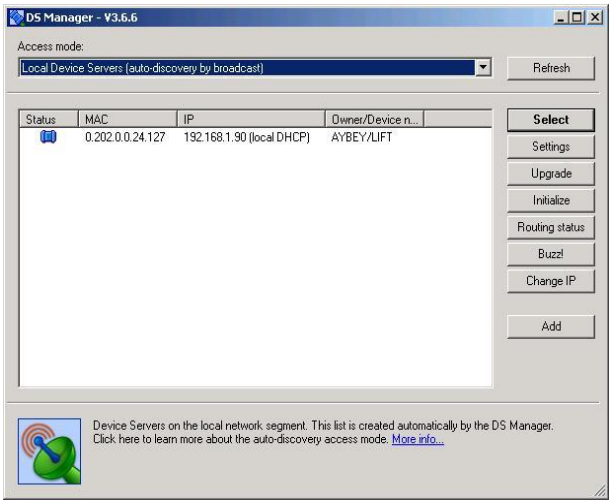
Select *Device Server is accessible from this PC*



Enter *Select From The List* button

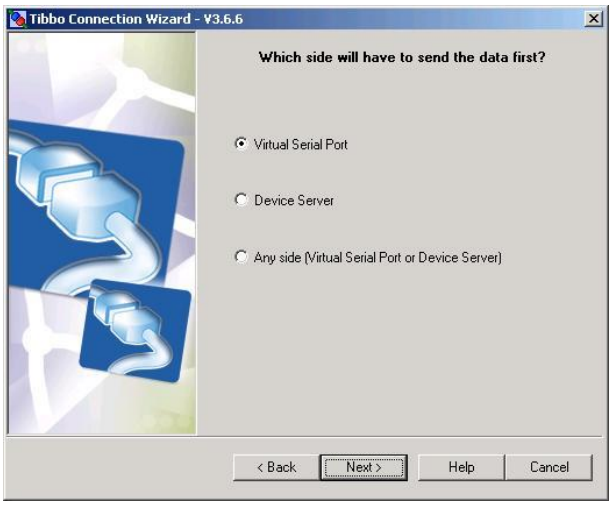
Select module from the screen and press *Select* button



Next

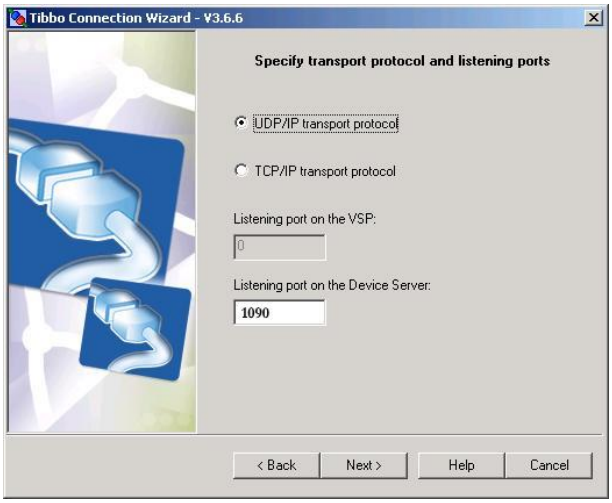
Yes

Select *Virtual Serial Port*



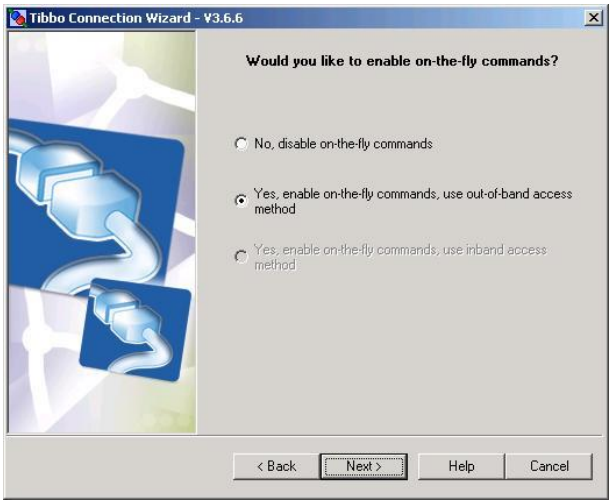
Next

Select *UDP/IP transport protocol*

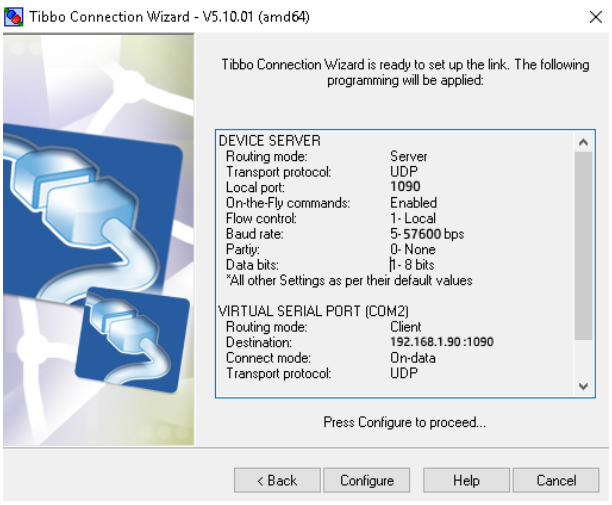


Next

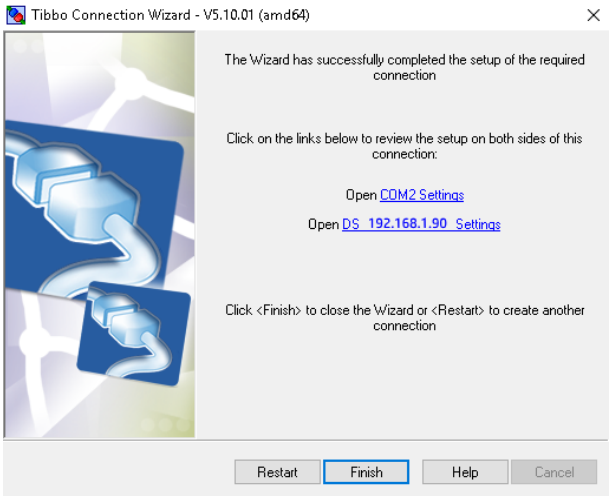
Select *Yes, enable on-the-fly commands, use out-of-band access method*



Next

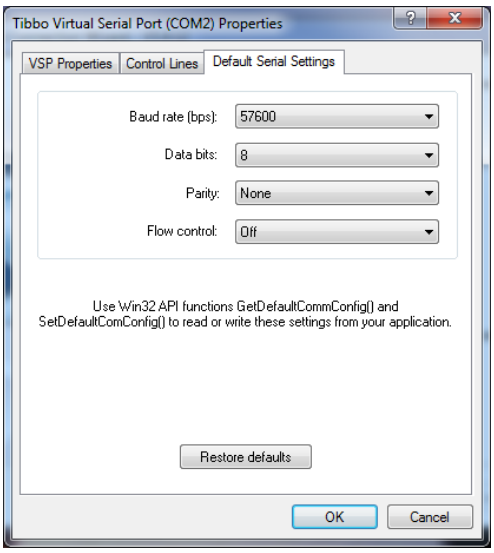


Configure

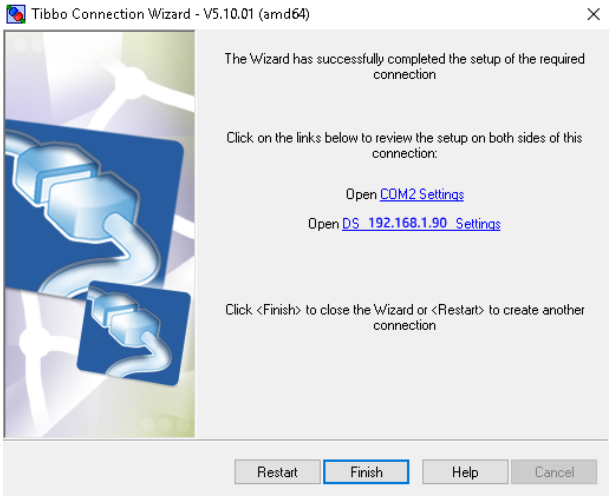


Click *COM2 Settings*

Click Default Serial Settings and Set Baud Rate to 57600 of virtual port same as lift communication baud rate.

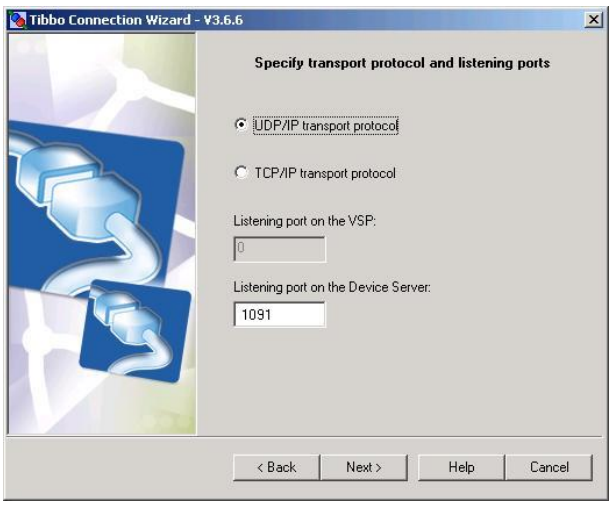


OK



For more than one connection click *Restart*

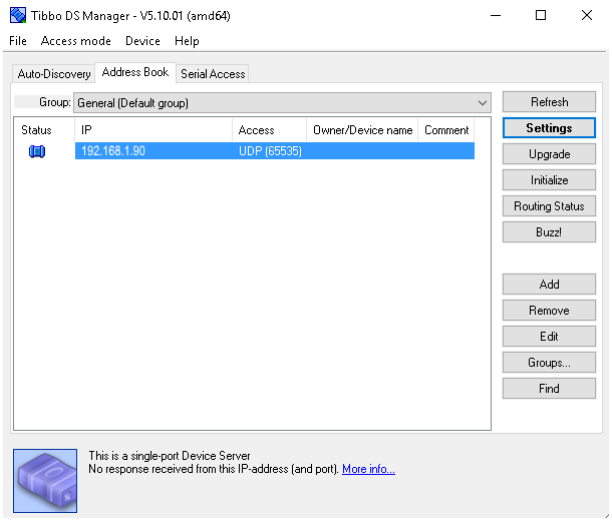
Select new *port name* in *Specify the Virtual Serial Port* window and enter second forwarded port number manually (1091 in our example) for ETN board to *Listening port on the Device Server*



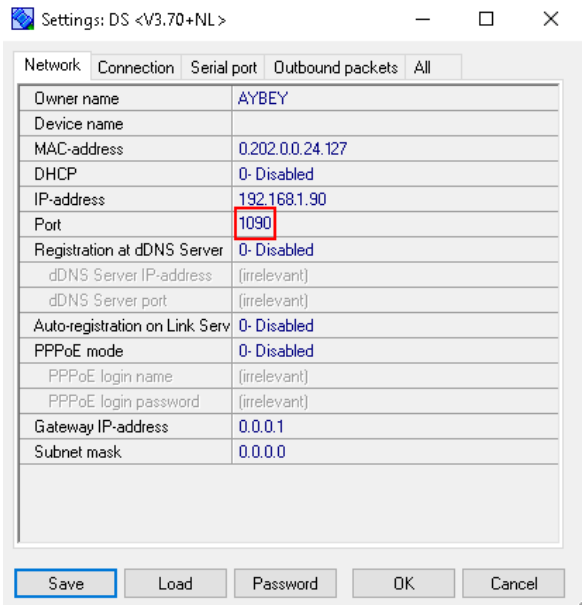
Apply same processes

Finish for quit program.

Run *Tibbo DS Manager* program.

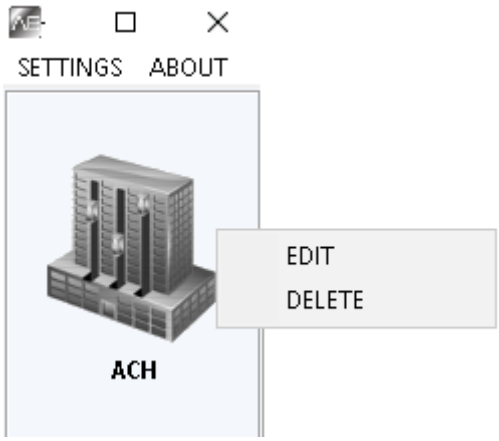


Select modul and click *Settings* button



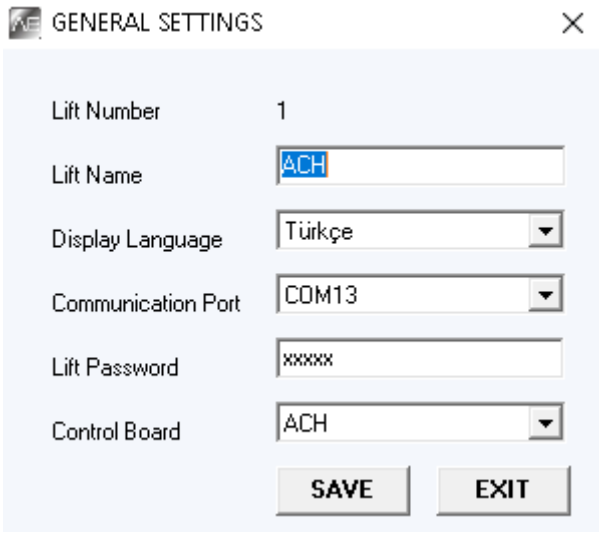
Check port number and if changed please enter right port number for ETN board to *Port* (1090 in our example) and *Save*.

Run AYBEYNET Program



Right Click

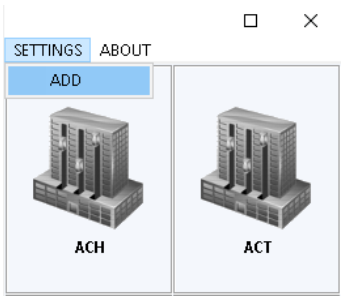
EDIT



Select Noted Port Number to Communication Port and select Control Board

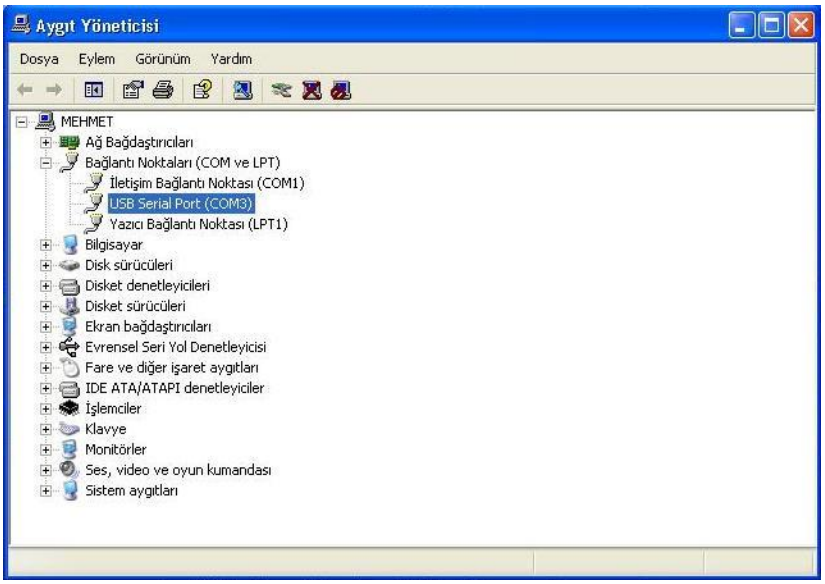
Save

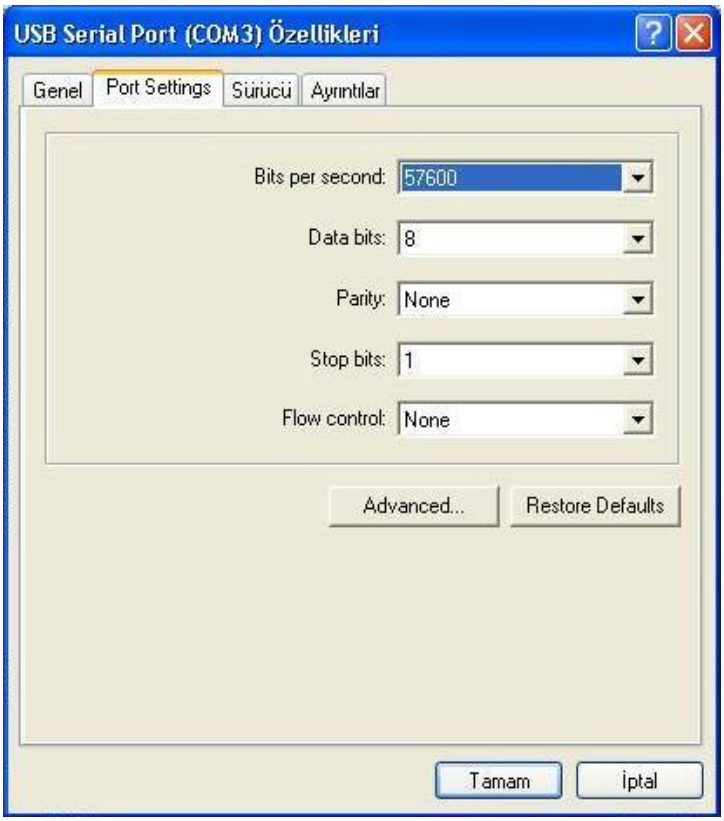
Click *SETTINGS* and *ADD* for display other lifts on AYBEYNET program.



ETN Board Settings for USB Connection

Make USB connection between control panel and computer and run etn-usn.exe file that you downloaded to your computer from http://maeslift.de/en/support/lift-control-system-application-software/ or CD. When you energize the system, new hardware found warning displays. On driver screen, open save location and find USB driver. After that go Device Manager on your computer and set baud rate of new port to 57600.



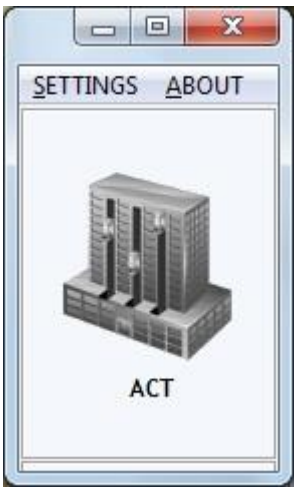


Control Panel Settings

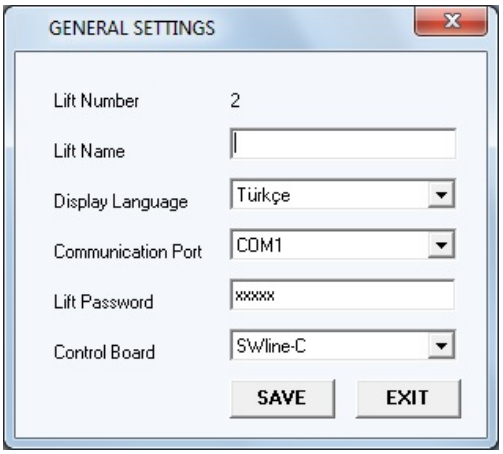
In AC Series be sure that parameter of SPx (x: 1,2,3,4 Serial Ports of mainboard) are proper with PC Communication (1). (Parameters are [B10], [B12], [B13], [B14], [B15]). And [B23] parameter value in SW-C system or [B22] parameter value has to be 57600.

AYBEYNET – Computer Interface Program Settings

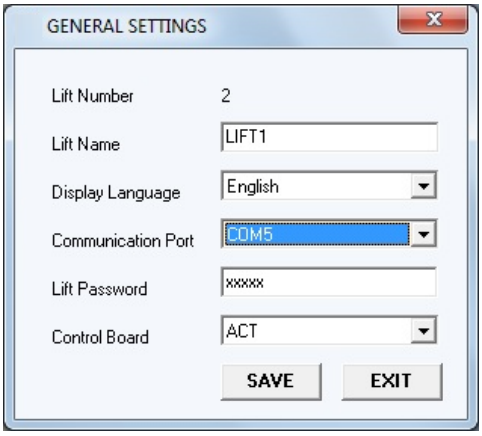
Run AYBEYNET program and add a new lift.



Add a new lift from Settings-Add Menu or Edit with right click.

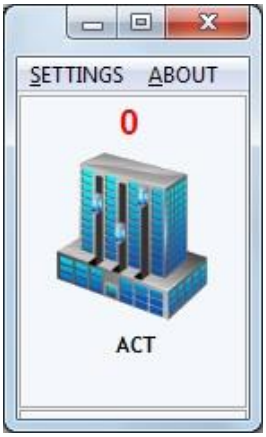


When above window open, edit settings proper with your lift and PC Com Port.

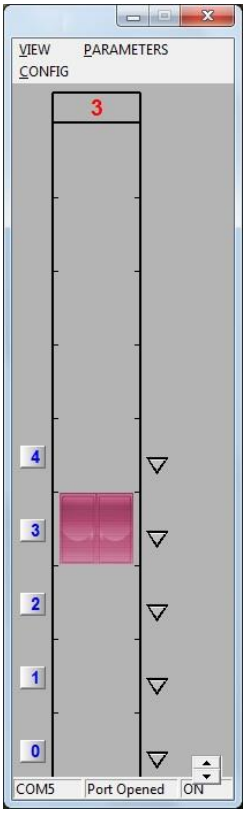


Lift Name *Name of Lift (eg Flower Building)*
Display Language *Language of Program (Turkish/English)*
Communication Port *Defined ComPort (eg COM5)*
Baudrate *Baudrate Settings in Control Panel (57600 recommended)*
Lift Password *Enter your lift password set from control panel (Enter 0 if not set from control panel)*
Control Board *Control board of lift*

Click SAVE button after settings to establish connection lift with your PC.



When you double click on it, ACCom programs runs and connects to lift automatically.



You can observe your lift and also set all parameters and check all error list.