

# **MOXA NPORT 5150 – REAL COM MODE CONFIGURATION GUIDE**

Version: 1.03

Last Updated: 21-07-2016



# BEFORE YOU BEGIN

## Technical Support

If you cannot find the answer to your question in this manual or in the Help files, we recommend you contact your system installer. Your installer is familiar with your system configuration and should be able to answer any of your questions.

Should you need additional information, please call our Technical Support Help desk, Monday to Friday 9:00 AM to 6:00 PM (GMT +8:00)

### Method Details

Phone + 60 (3) - 8068 1929

Fax + 60 (3) - 8068 1922

Internet [www.entrypass.net](http://www.entrypass.net)

Email [support@entrypass.net](mailto:support@entrypass.net)



## Notes:

1. Please make sure you have installed 'NPort Administration Suite' program on your PC or laptop.
2. Next, please connect Moxa device to this PC or laptop using cross cable.
3. Then, please run the 'NPort Administrator' program to do the configuration.
4. After the program is running, please follow the following steps to do the configuration:



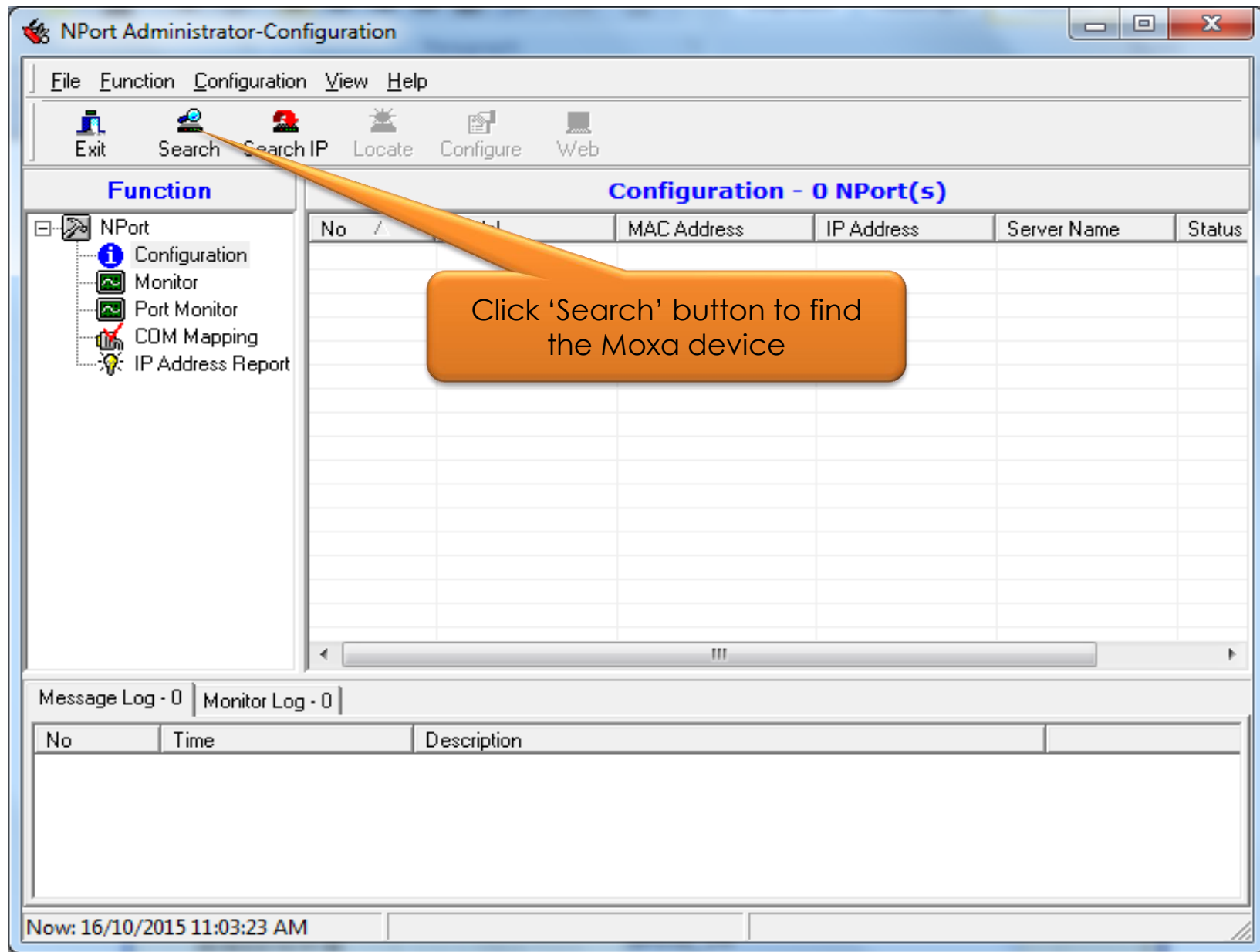
# **NPORT ADMINISTRATION SUITE PROGRAM**

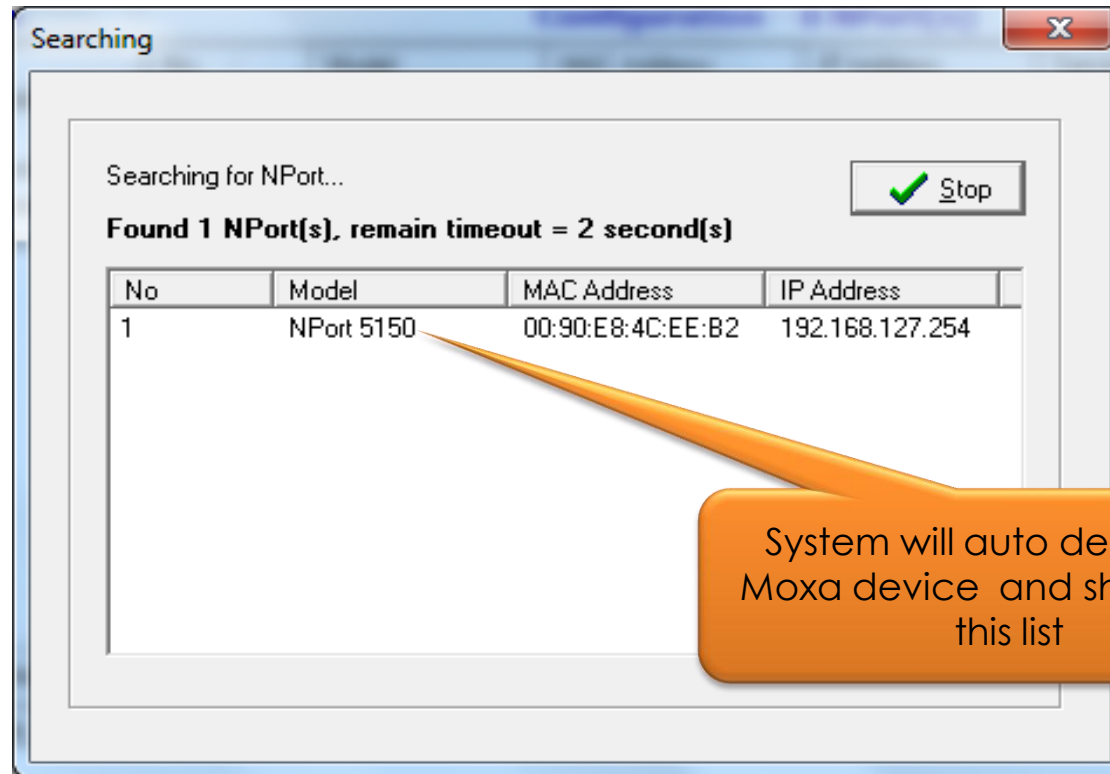
Version: 1.02

Last Updated: 24-06-2016

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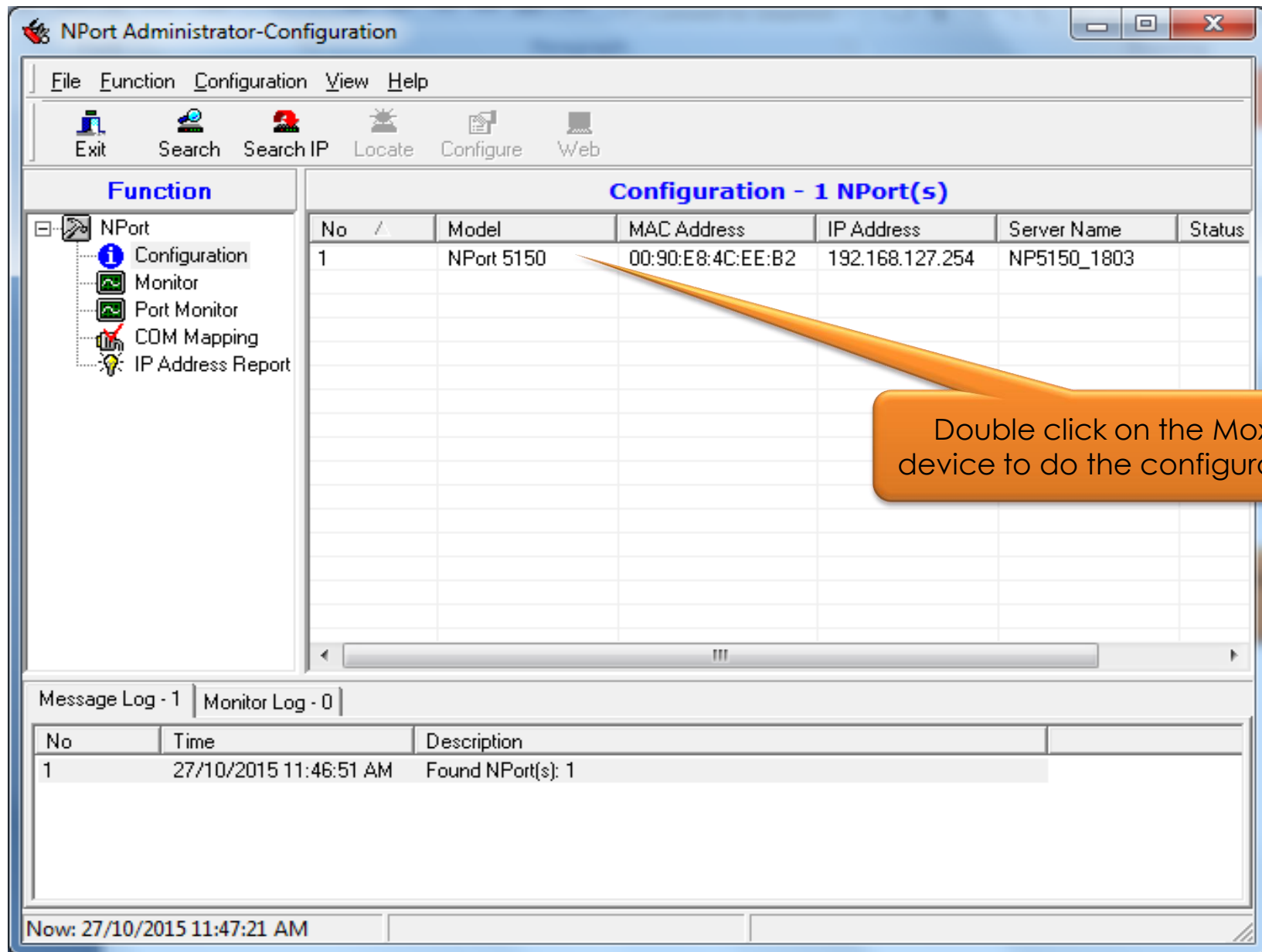




Notes:

You can either click the 'Stop' button to end the searching process or waiting for the searching process timeout





# Basic Tab

The screenshot shows a 'Configuration' window with a 'Basic' tab selected. On the left, there is an 'Information' section with fields for Model Name (NPort 5150), MAC Address (00:90:E8:3F:10:44), Serial Number, Firmware Version (Ver 3.4), and System Uptime (0 days, 00h:35m:20s). The main area is divided into sections: 'Accessible IPs' (Basic), 'Auto Warning' (Network), 'IP Address Report' (Serial), and 'Password' (Operating Mode). In the 'Basic' section, the 'Modify' checkbox is checked and highlighted with a red box. Below it, the 'Server Name' field contains the text 'NP5150\_935'. Other fields include Time Zone, Local Date (01/01/2000), Local Time (12:00:00 AM), and Time Server. At the bottom, there are checkboxes for 'Modify', 'Enable Web Console', and 'Enable Telnet Console'. The 'OK' and 'Cancel' buttons are at the bottom right. A footer note says 'Click the "Modify" check box to modify configuration'.

1. Tick the 'Modify' option

2. Enter a name for this Moxa device





# Network Tab

Configuration

Information  
Model Name  
NPort 5150  
MAC Address  
00:90:E8:3F:10:44  
Firmware Version  
Ver 3.4

Accessible IPs  
Basic

Auto Warning  
Network

IP Address Report  
Serial

Password  
Operating Mode

Modify  
IP Address  
192.168.1.100

Modify  
Netmask  
255.255.255.0

Gateway

IP Configuration  
Static

DN Server 1

DN Server 2

Enable SNMP  
public

Contact

Click the "Modify" check box to modify configuration

OK Cancel

1. Tick the 'Modify' option

2. Enter IP Address, Subnet Mask and Gateway IP for this Moxa device



# Serial Tab

Configuration

Information  
Model Name  
NPort 5150  
MAC Address  
935  
Firmware Version  
Ver 3.4  
System Uptime  
0 days, 00h:35m:20s

Accessible IPs | Auto Warning | IP Address Report | Password  
Basic | Network | Serial | Operating Mode

Modify

Port	Alias	Settings
1		9600,N 8.1,No flowctrl

View Settings Settings

Click the "Modify" check box to modify configuration

OK Cancel

1. Tick the 'Modify option

2. Double click 'Port 1' to edit 'Serial Setting'



The image shows a 'Serial Settings' dialog box with the following configuration options:

- 1 Port(s) Selected. 1st port is Port 1
- Apply port alias to all selected ports
- Port Alias: [Empty text box]
- Baud Rate: 9600
- Parity: None
- Data Bits: 8
- Stop Bits: 1
- Flow Control: None
- FIFO: Enable
- Interface: RS-485, 2 wire

Callout 1 (top right): 1. Configure all the serial setting as show on this windows

Callout 2 (bottom left): 2. Click 'OK' button to save the setting



# Operating Mode Tab

Configuration

Information

Model Name  
NPort 5150

MAC Address  
00:90:E8:3F:10:44

Firmware Version  
Ver 3.4

System Uptime  
0 days, 00h:24m:07s

Accessible IPs | Auto Warning | IP Address Report | Password

Basic | Network | Serial | Operating Mode

Modify

Port	Alias	OP Mode
		Real COM Mode

View Settings | Settings

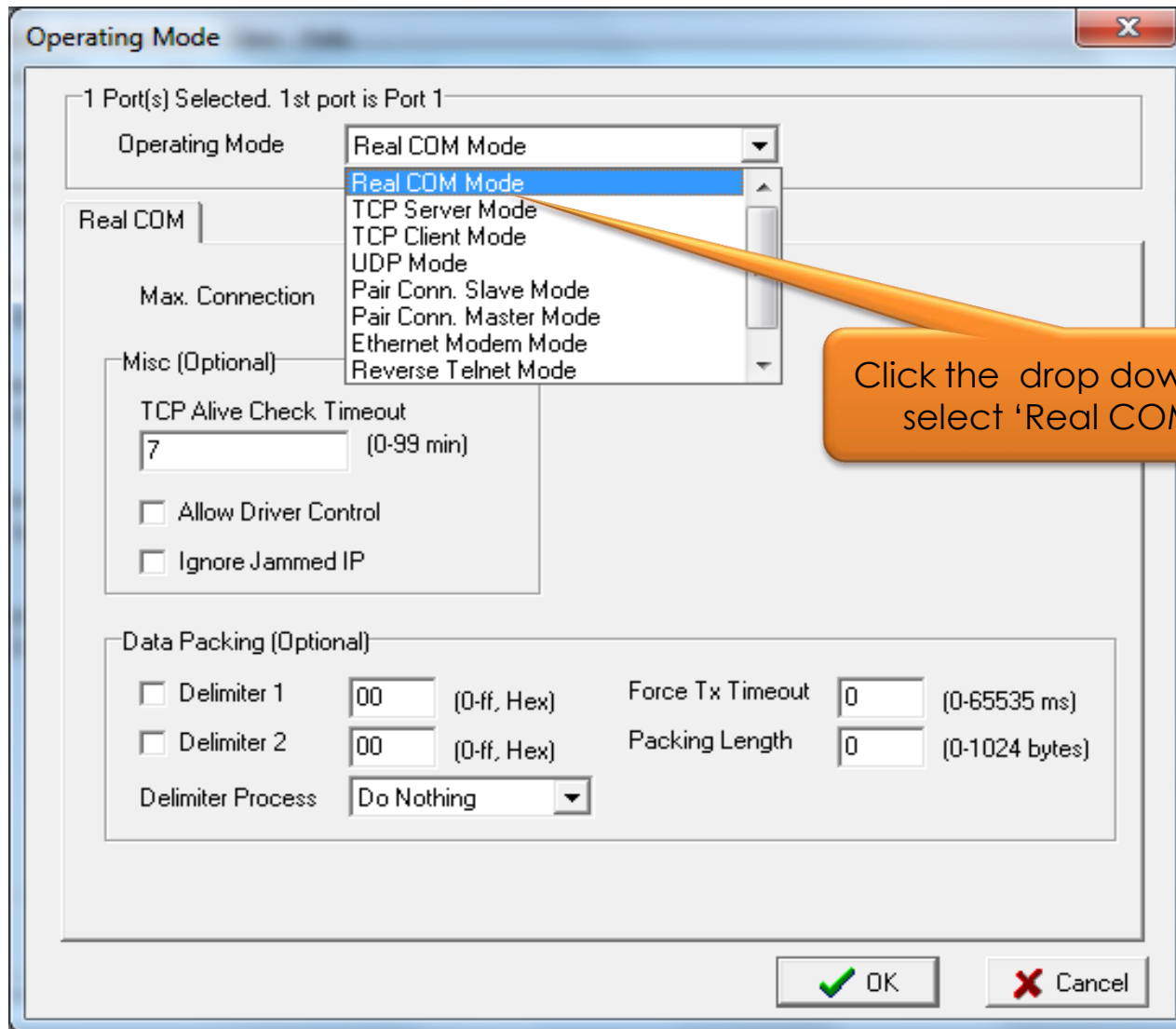
Click the "Modify" check box to modify configuration

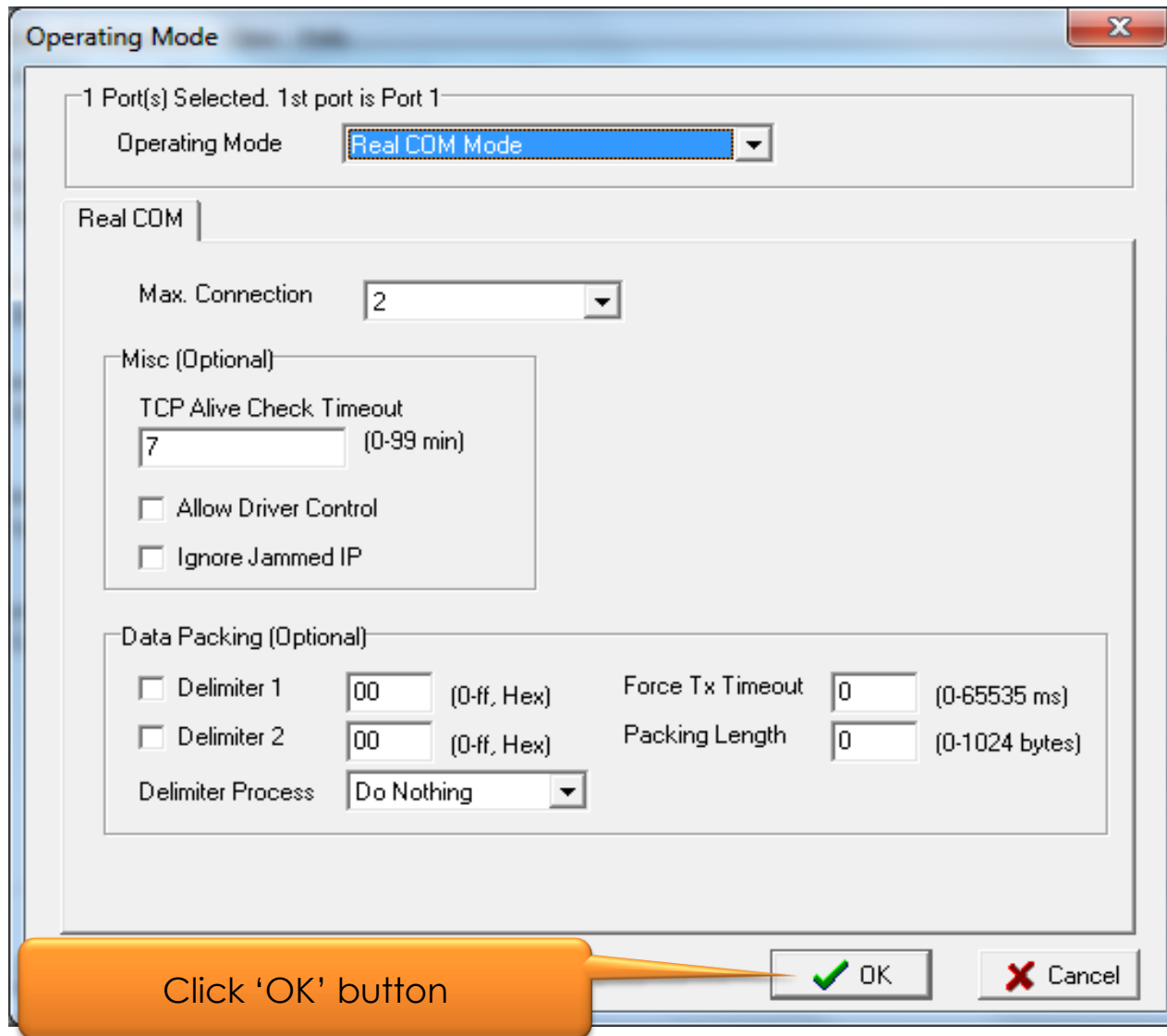
OK Cancel

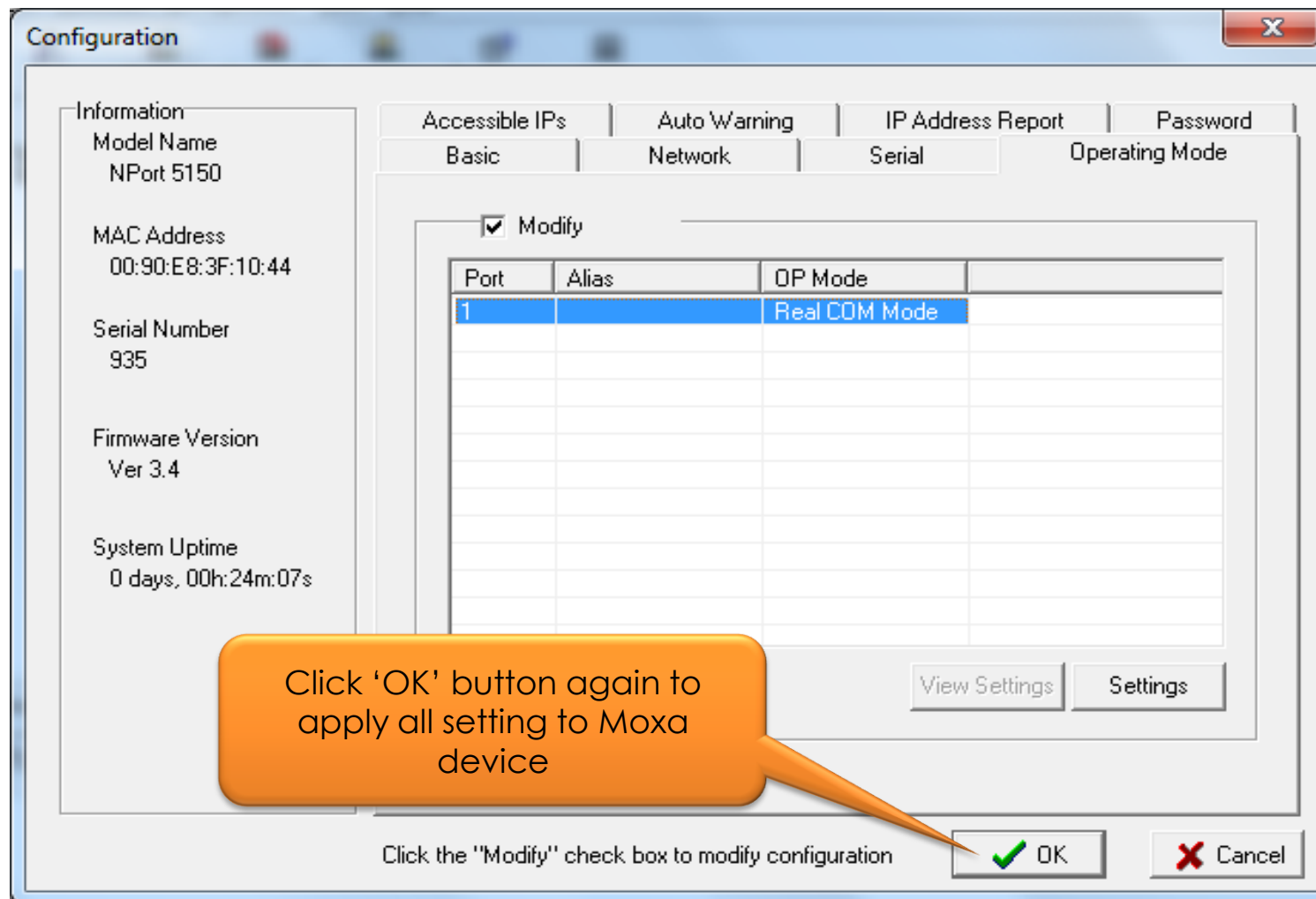
1. Tick the 'Modify option'

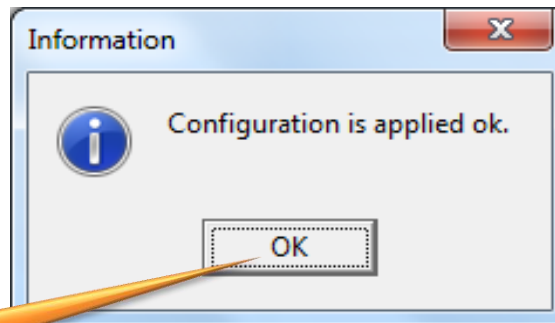
2. Double click 'Port 1' to edit 'Operation Mode'











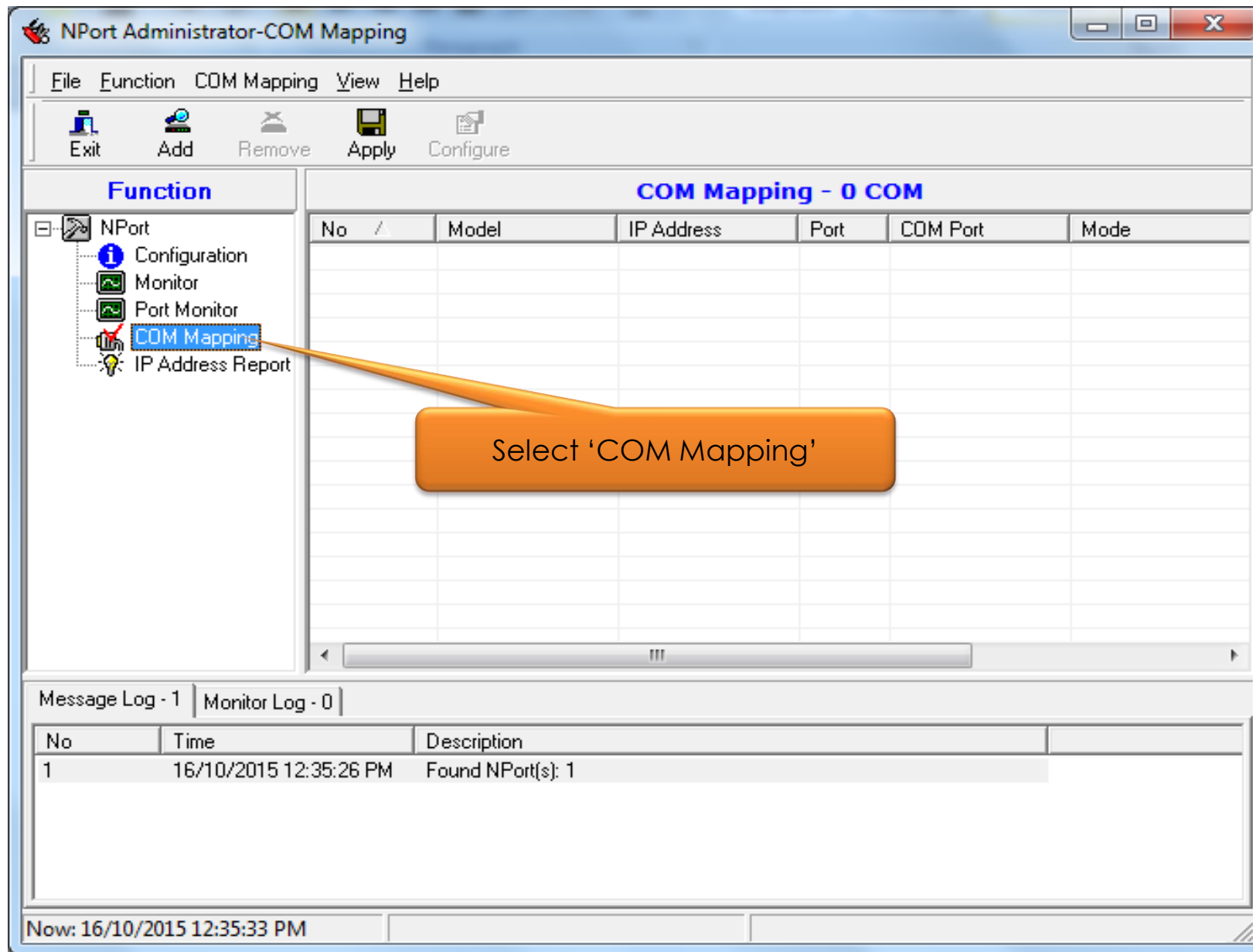
Click 'OK' button to end the configuration

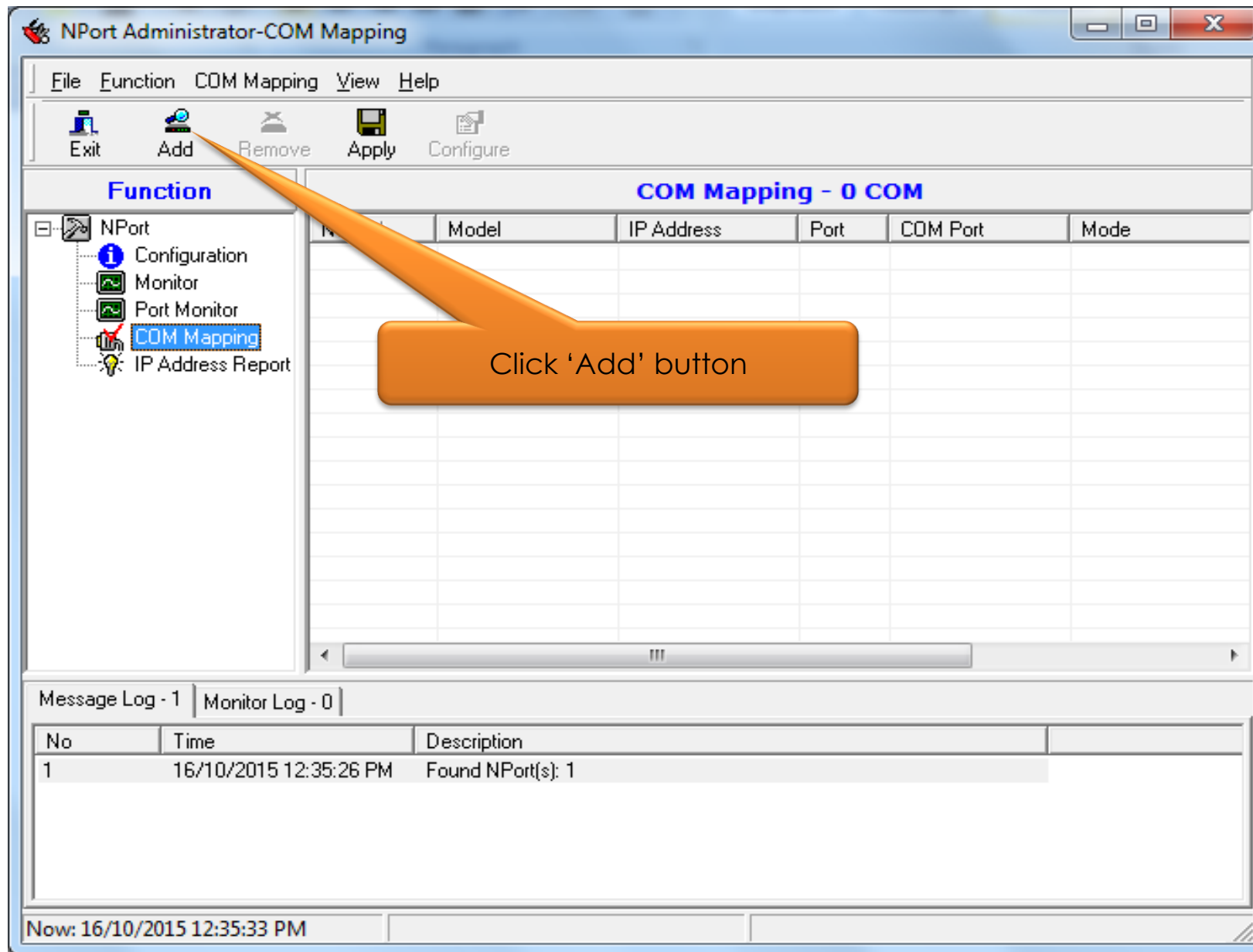
Notes:

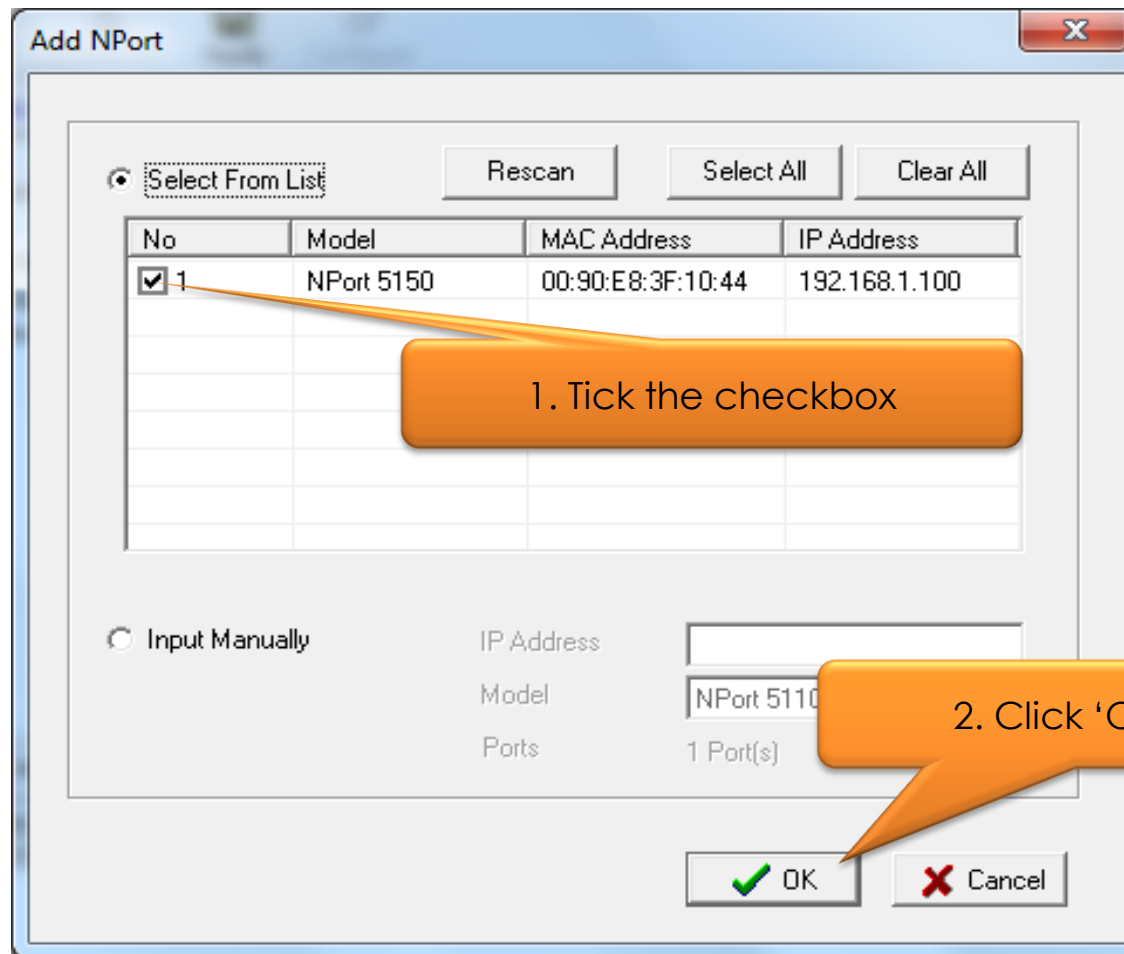
You will see the above windows showing, if all the settings are applied successfully to Moxa device

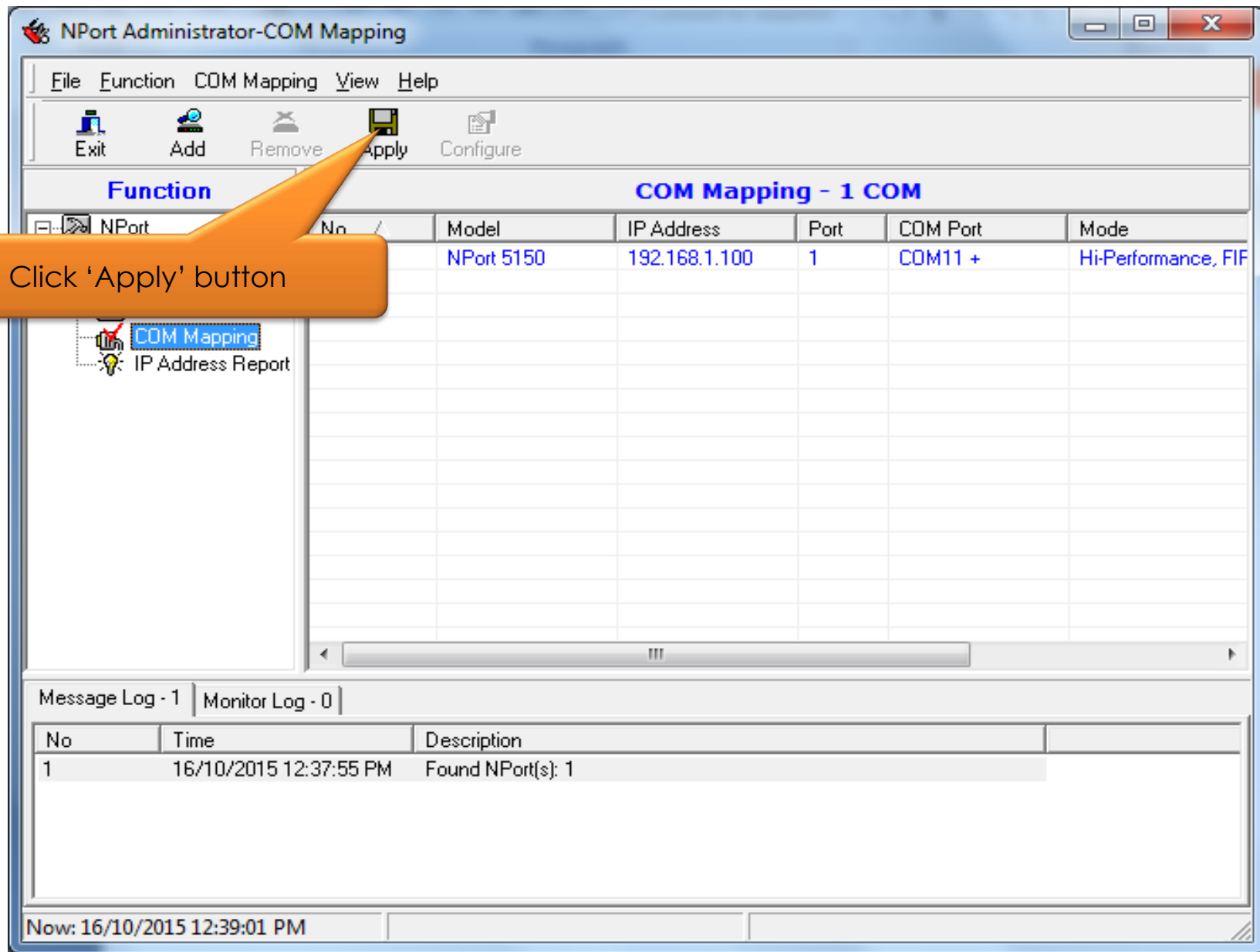


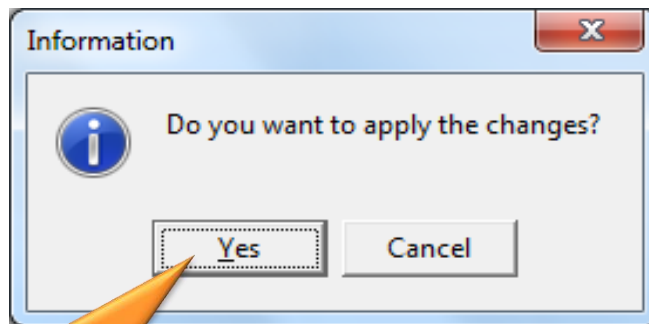






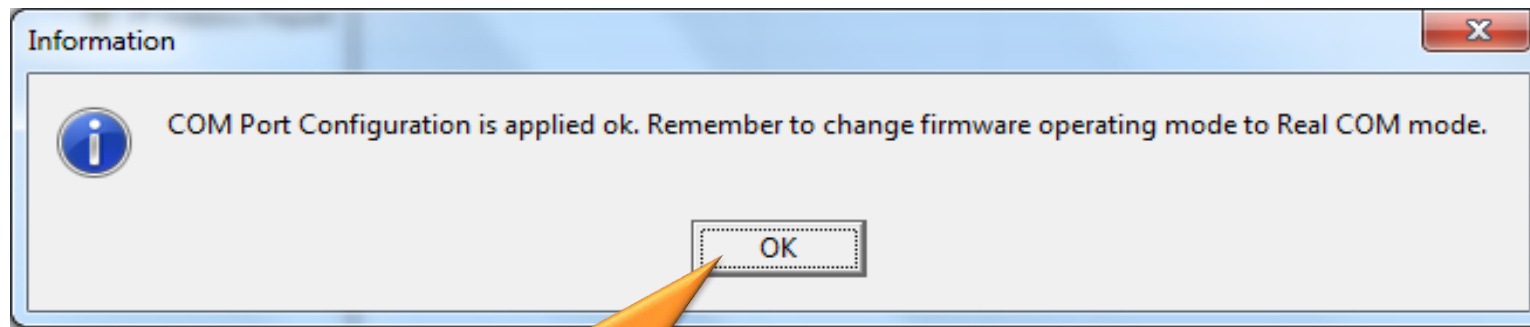






Click 'Yes' button





NPort Administrator - COM Mapping

File Function COM Mapping View Help

Exit Add Remove Apply Configure

**Function**

- NPort
  - Configuration
  - Monitor
  - Port Monitor
  - COM Mapping**
  - IP Address Report

**COM Mapping - 1 COM**

No /	Model	IP Address	Port	COM Port	Mode
1	NPort 5150	192.168.1.100	1	COM11	Hi-Performance, FIFO

Message Log - 2 | Monitor Log - 0

No	Time	Description
1	16/10/2015 12:37:55 PM	Found NPort(s): 1
2	16/10/2015 12:40:44 PM	COM Port Added: 192.168.1.100,Port1,COM11

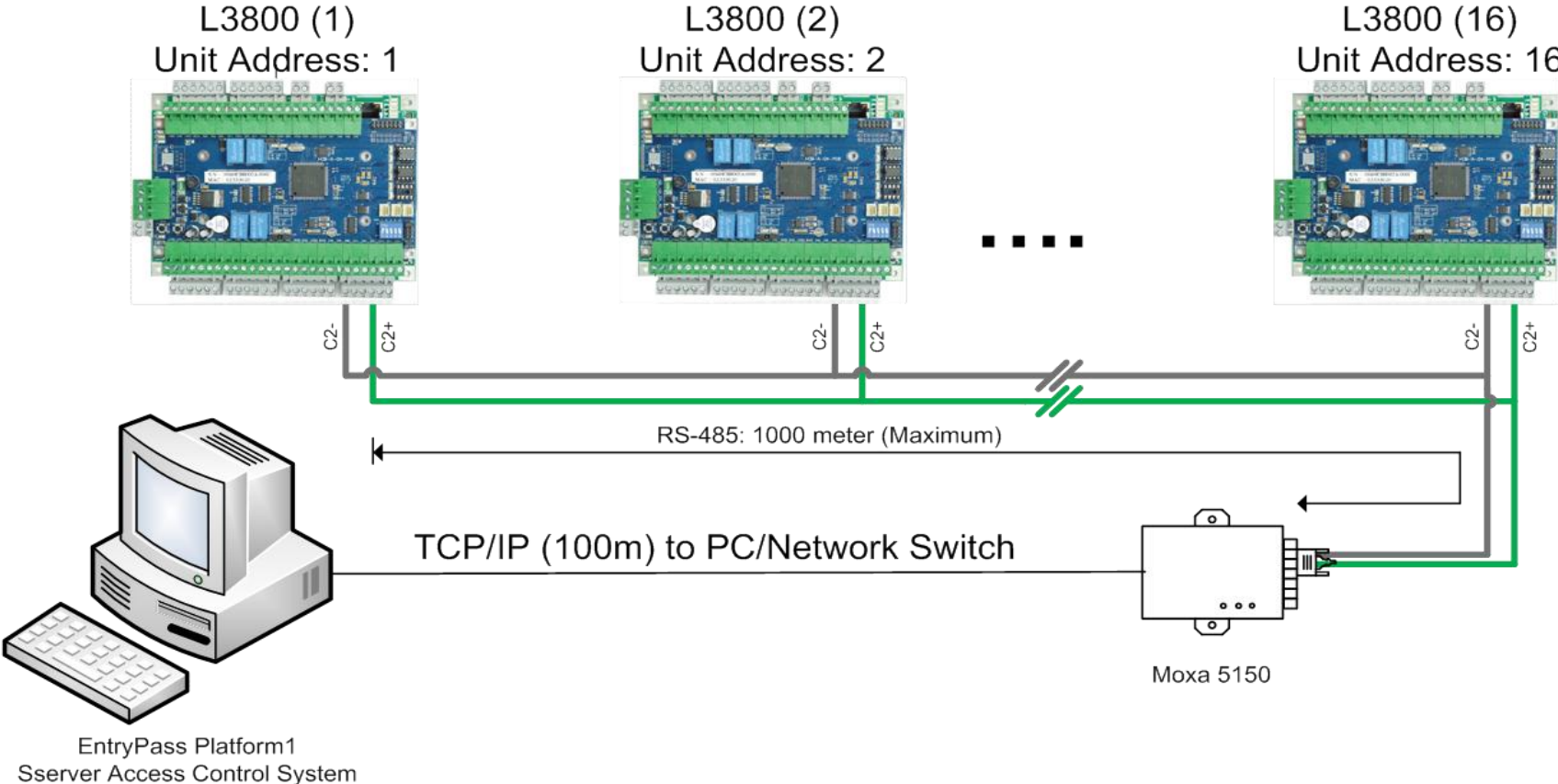
Now: 16/10/2015 12:41:07 PM

Notes:  
Comport now is really to use



# L3800 Controller

Please make sure you are connected the L3800 controller C2+ to Moxa device C+ (DB9-PIN3), and L3800 controller C2- to Moxa device C- (DB9-PIN4)

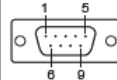




On the DB female connector side, please make sure you are connect the PIN according to RS485 (2w) table


**NPort 5150 Serial Port Pinouts**  
**DB9 Male RS-232/422/485 port pinouts for NPort 5150/5150-T**

Pin	RS-232	RS-422, RS-485 (4w)	RS-485 (2w)
1	DCD	TxD-(A)	---
2	RxD	TxD+(B)	---
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	---	---
7	RTS	---	---
8	CTS	---	---
9	---	---	---



**Cable Wiring Diagrams**  
**Ethernet Cables**

**Straight-Through Cable**



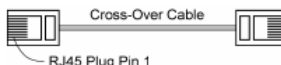
RJ45 Plug Pin 1

**Cable Wiring**

```

3 ----- 3
6 ----- 6
1 ----- 1
2 ----- 2
  
```

**Cross-Over Cable**



RJ45 Plug Pin 1

**Cable Wiring**

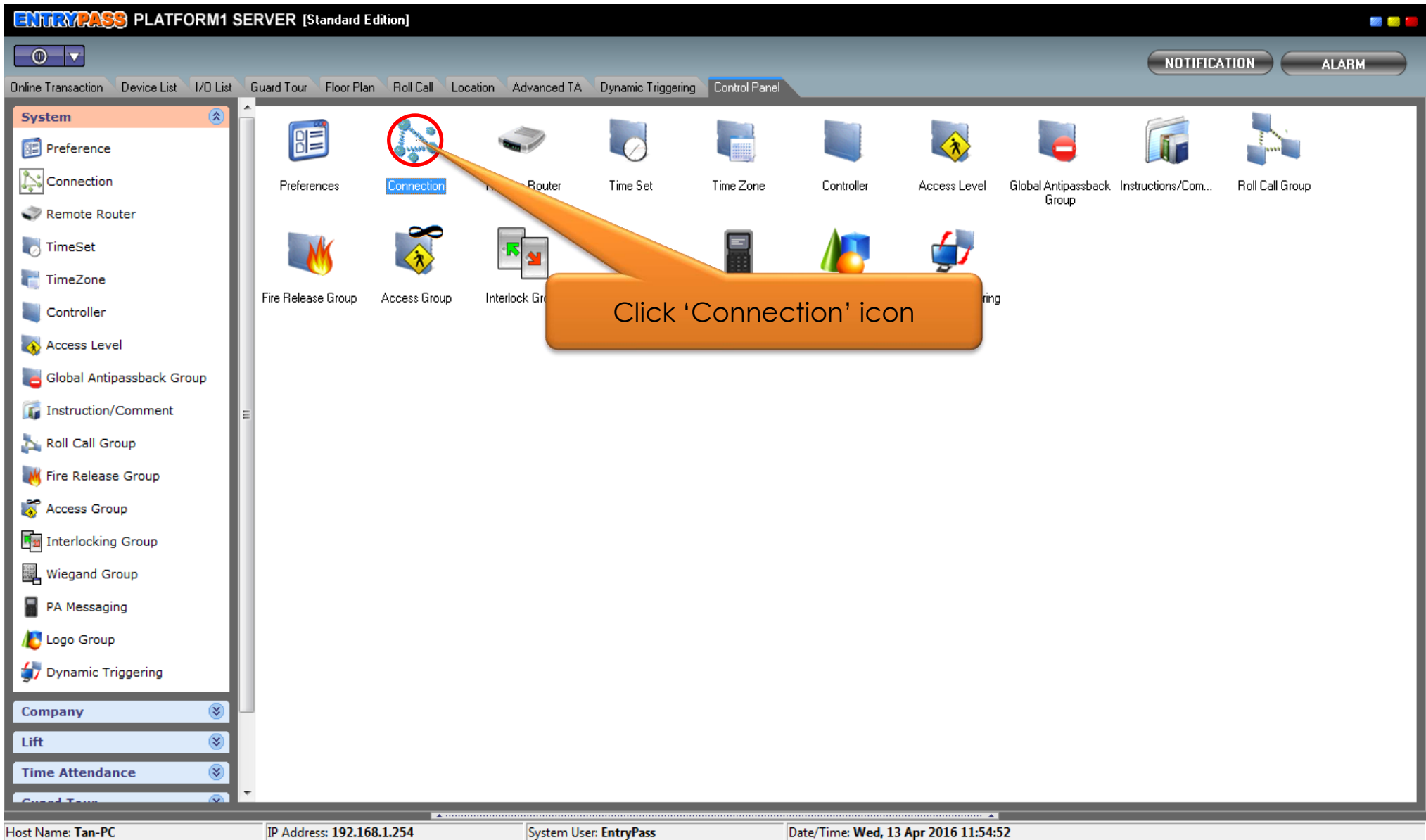
```

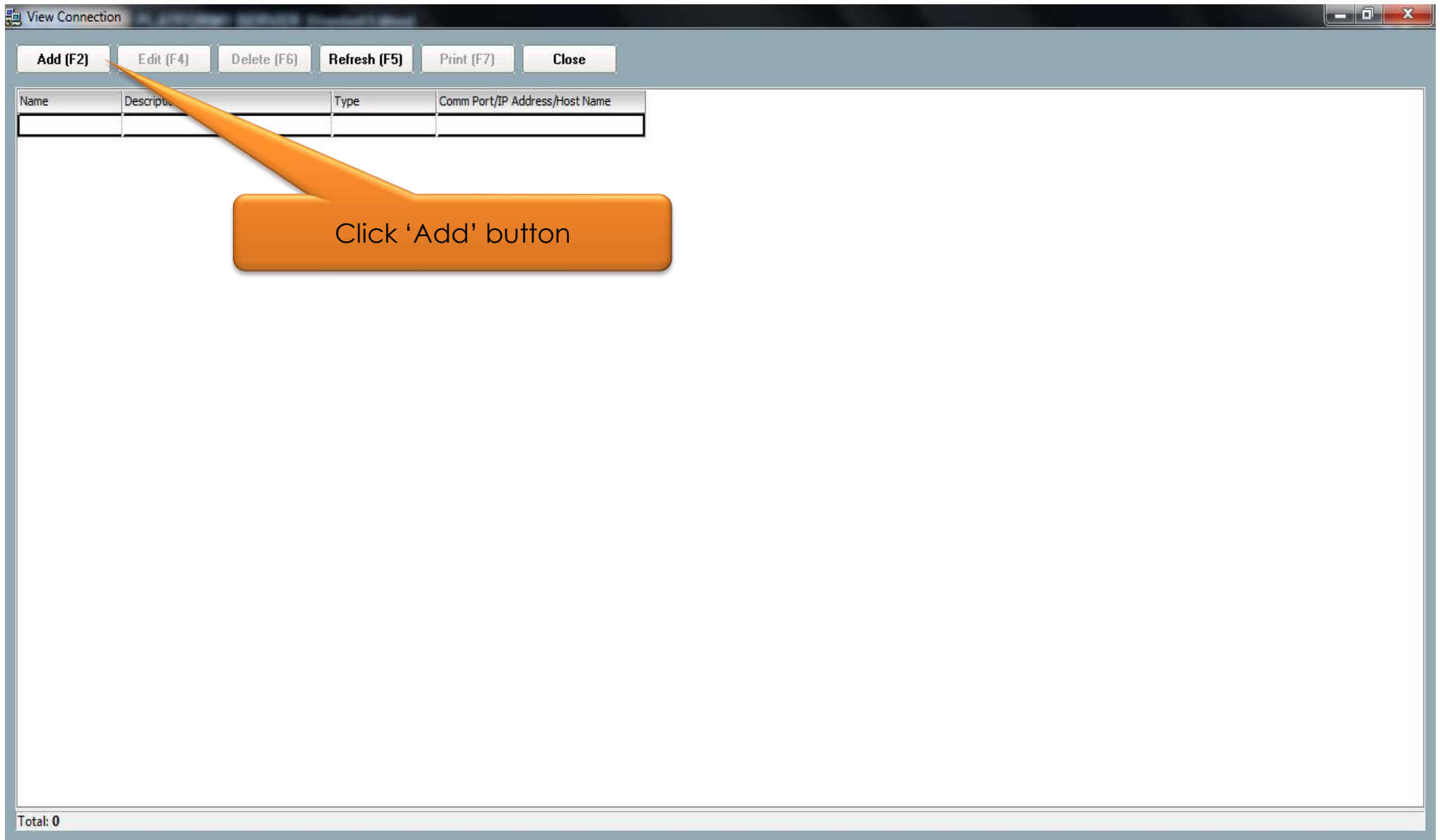
3 ----- 1
6 ----- 2
1 ----- 3
2 ----- 6
  
```



# EntryPass Platform1 Server Setting







The image shows a software dialog box titled "Connection - Add". It contains the following fields and controls:

- Name:** A text input field containing "Moxa Com".
- Description:** A text input field containing "Moxa Com".
- Type:** A dropdown menu with "Serial" and "Comm Port" options. "Serial" is currently selected.
- Comm Port:** A numeric spinner control set to "11".
- Buttons:** "Save and Close", "Save and New", and a partially visible "Cancel" button.

Four orange callout boxes provide instructions:

1. Enter name and description (points to the Name and Description fields)
2. Select 'Type' as 'Serial' (points to the Type dropdown menu)
3. Enter Moxa device Port No. (points to the Comm Port spinner)
4. Click 'Save and Close' button (points to the Save and Close button)

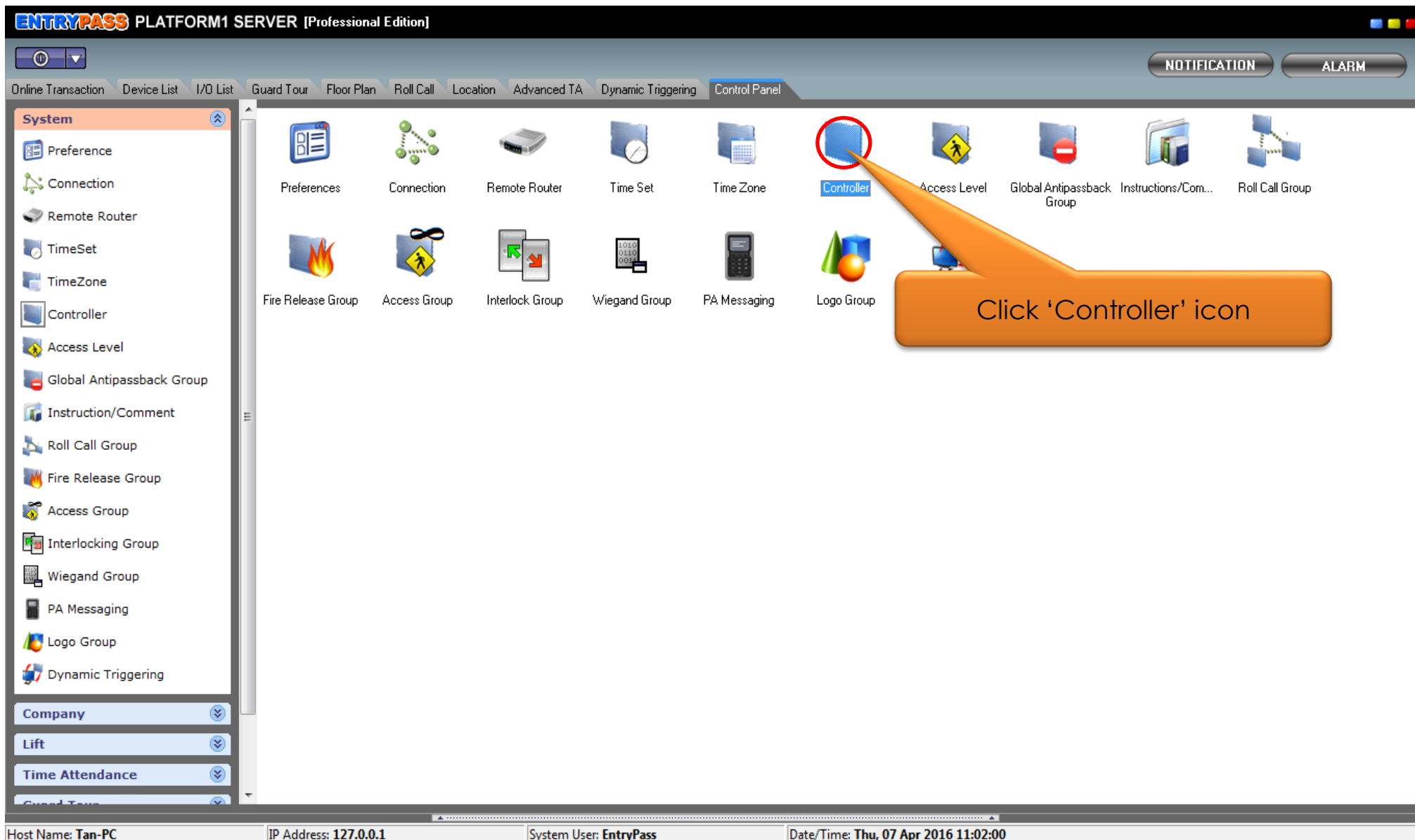


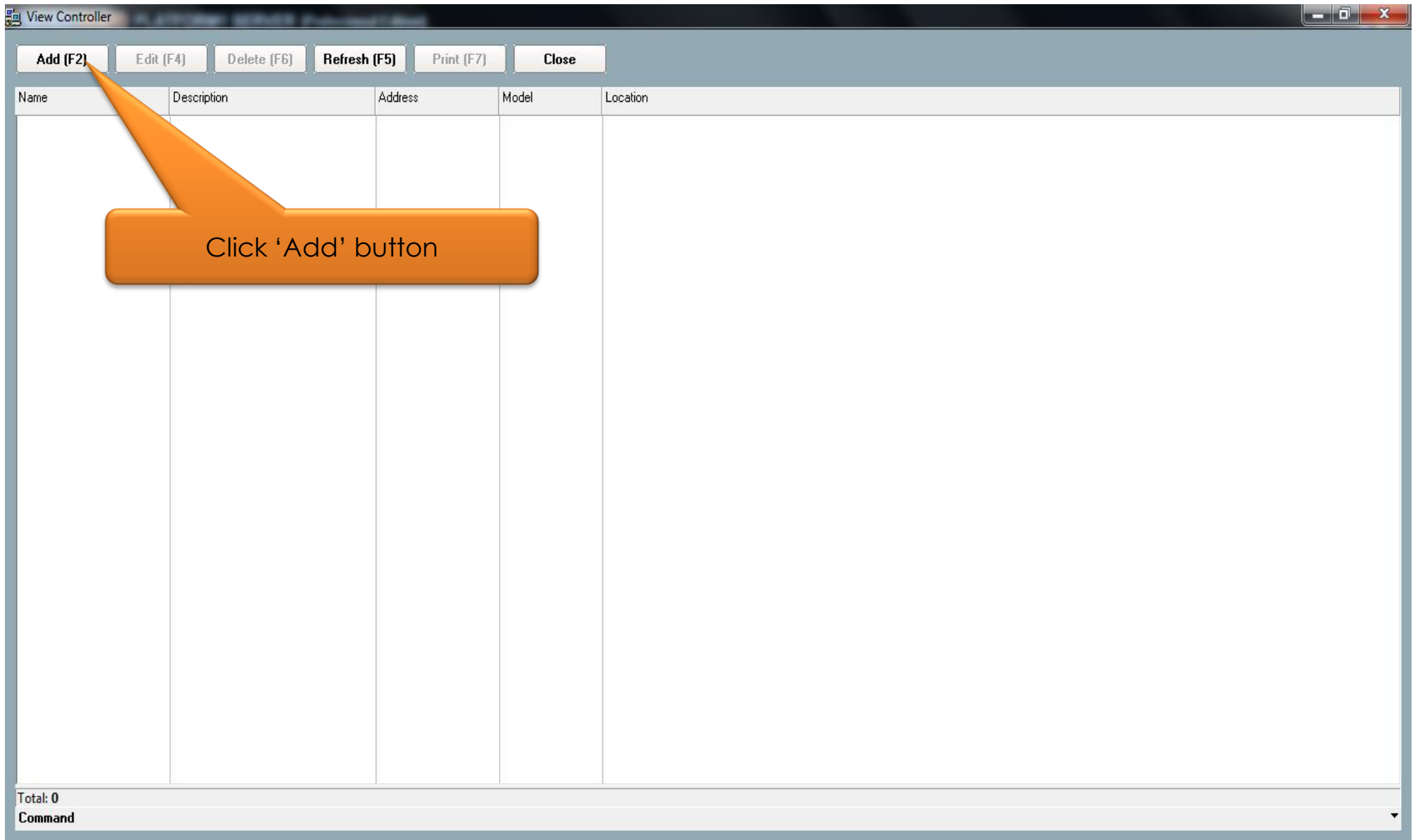
The screenshot shows a software window titled "View Connection". At the top, there is a menu bar with several buttons: "Add (F2)", "Edit (F4)", "Delete (F6)", "Refresh (F5)", "Print (F7)", and "Close". Below the menu bar is a table with the following data:

Name	Description	Type	Comm Port/IP Address/Host Name
Moxa Com	Moxa Com	Serial	Comm 11

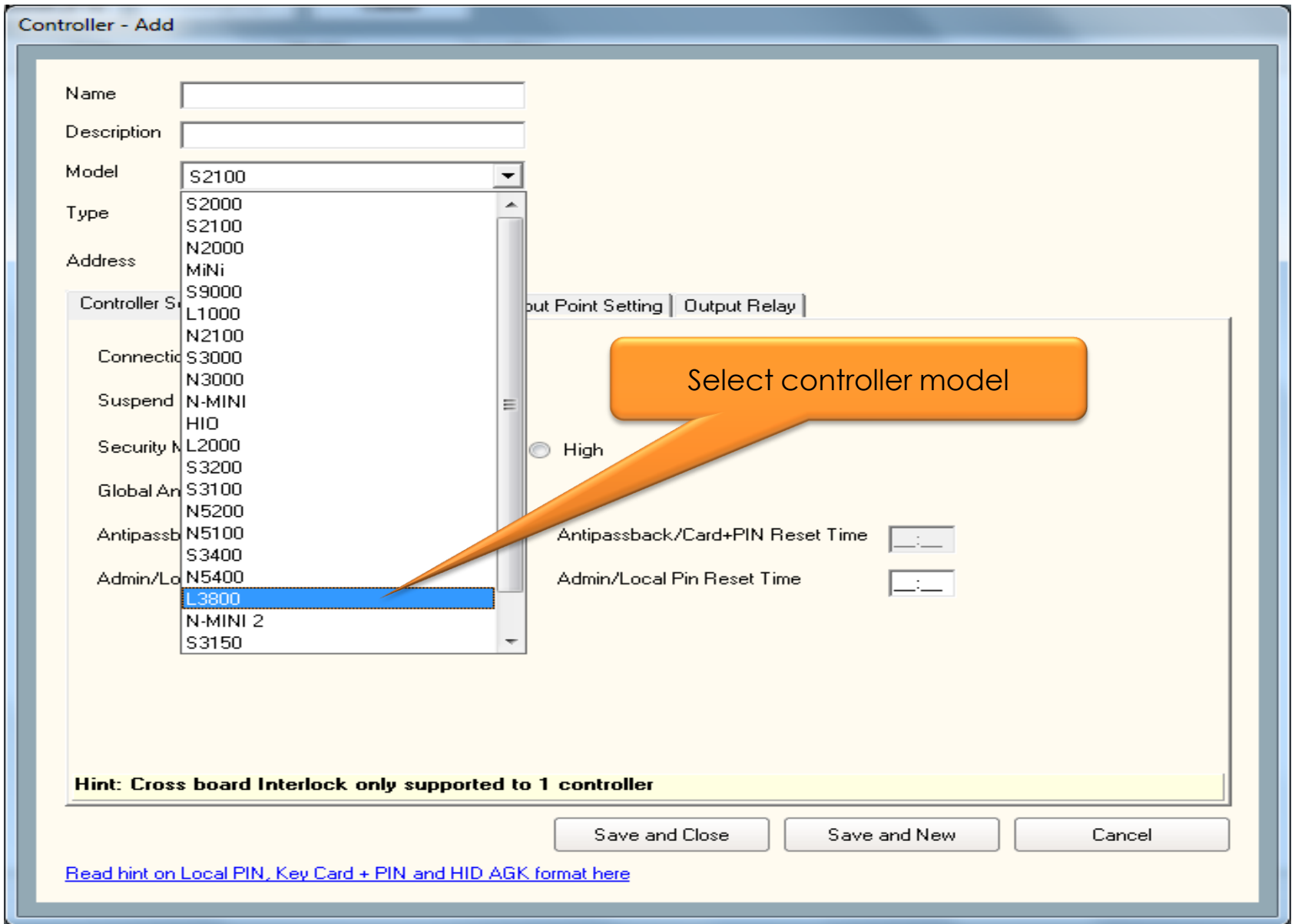
An orange callout bubble points to the "Close" button with the text "Click 'Close' button". At the bottom left of the window, it says "Total: 1".











Controller - Add

Name

Description

Model

Address

Controller Setting | Sub Lift | Fingerprint | Lift Reader

Connection [Undefined](#)

Suspend Polling  No

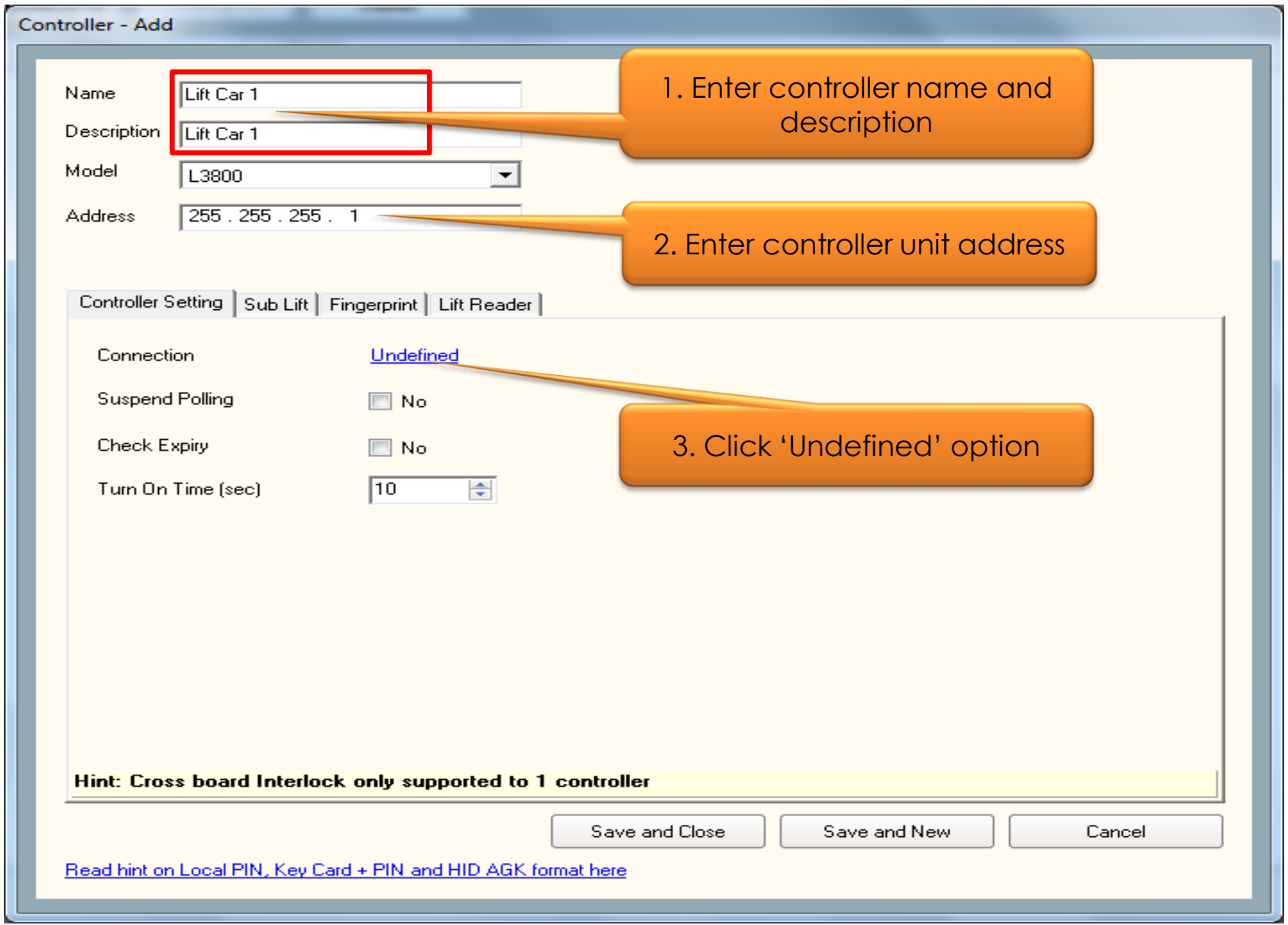
Check Expiry  No

Turn On Time (sec)

**Hint: Cross board Interlock only supported to 1 controller**

[Read hint on Local PIN, Key Card + PIN and HID AGK format here](#)

Save and Close Save and New Cancel



The screenshot shows a software window titled "View Connection". At the top, there is a menu bar with buttons: "Add (F2)", "Edit (F4)", "Delete (F6)", "Refresh (F5)", "Print (F7)", "Close", and "Select". Below the menu bar is a table with the following data:

Name	Description	Type	Comm Port/IP Address/Host Name
Moxa Com	Moxa Com	Serial	Comm 11

Two orange callout boxes provide instructions:

- 1. Choose connection type (pointing to the "Type" column)
- 2. Click 'Select' button (pointing to the "Select" button)

Total: 1



**Controller - Add**

Name

Description

Model

Address

**Click 'Sub Lift' tab**

Controller Setting | **Sub Lift** | Fingerprint | Lift Reader

Connection [Moxa Com - Moxa Com](#)

Suspend Polling  No

Check Expiry  No

Turn On Time (sec)

**Hint: Cross board Interlock only supported to 1 controller**

[Read hint on Local PIN, Key Card + PIN and HID AGK format here](#)



**Controller - Add**

Name:

Description:

Model:

Address:

Controller Setting | **Sub Lift** | Fingerprint | Lift Reader

Enabled

Name:  Description:

Floor Index	Enabled	Floor Name	Floor Destination	ByPass TZ
1	<input type="checkbox"/> No			
2	<input type="checkbox"/> No			
3	<input type="checkbox"/> No			
4	<input type="checkbox"/> No			
5	<input type="checkbox"/> No			
6	<input type="checkbox"/> No			
7	<input type="checkbox"/> No			
8	<input type="checkbox"/> No			

[Read hint on Local PIN, Key Card + PIN and HID AGK format here](#)

Enter sub lift name and description



**Controller - Add**

Name:

Description:

Model:

Address:

Controller Setting | **Sub Lift** | Fingerprint | Lift Reader

Enabled

Name:  Description:

Floor Index	Enabled	Floor Name	Floor Description	ByPass TZ
1	<input checked="" type="checkbox"/> Yes	Level 1		<a href="#">0 - Not Active</a>
2	<input checked="" type="checkbox"/> Yes	Level 2		
3	<input checked="" type="checkbox"/> Yes	Level 3		
4	<input checked="" type="checkbox"/> Yes	Level 4		
5	<input checked="" type="checkbox"/> Yes	Level 5		<a href="#">0 - Not Active</a>
6	<input checked="" type="checkbox"/> Yes	Level 6		<a href="#">0 - Not Active</a>
7	<input checked="" type="checkbox"/> Yes	Level 7		<a href="#">0 - Not Active</a>
8	<input checked="" type="checkbox"/> Yes	Level 8		<a href="#">0 - Not Active</a>

[Read hint on Local PIN, Key Card + PIN and HID AGK format here](#)

Enter floor name



Controller - Add

Name: Lift Car 1  
 Description: Lift Car 1  
 Model: L3800  
 Address: 255 . 255 . 255 . 1

1. Click 'Sub Lift 1' tab

Controller Setting | **Sub Lift** | Fingerprint | Lift Reader

On-Board | **Sub Lift 1** | Sub Lift 2 | Sub Lift 3 | Sub Lift 4 | Sub Lift 5 | Sub Lift 6 | Sub Lift 7 | Sub Lift 8

Enabled

2. Tick the checkbox

Name: Lift 1 HIO 2 | Description: Lift 1 HIO 2

3. Enter sub lift 1 name and description

	ByPass TZ	Floor Description	Reader Name
11	<input type="checkbox"/> No		
12	<input type="checkbox"/> No		
13	<input type="checkbox"/> No		
14	<input type="checkbox"/> No		
15	<input type="checkbox"/> No		
16	<input type="checkbox"/> No		

Save and Close | Save and New | Cancel

[Read hint on Local PIN, Key Card + PIN and HID AGK format here](#)



**Controller - Add**

Name:

Description:

Model:

Address:

Controller Setting | **Sub Lift** | Fingerprint | Lift Reader

On-Board | **Sub Lift 1** | Sub Lift 2 | Sub Lift 3 | Sub Lift 4 | Sub Lift 5 | Sub Lift 6 | Sub Lift 7 | Sub Lift 8

Enabled

Name:  Description:

Floor Index	Enabled	Floor Name	Floor Description	ByPass TZ
9	<input checked="" type="checkbox"/> Yes	Level 9		<a href="#">0 - Not Active</a>
10	<input checked="" type="checkbox"/> Yes	Level 10		
11	<input checked="" type="checkbox"/> Yes	Level 11		
12	<input checked="" type="checkbox"/> Yes	Level 12		
13	<input checked="" type="checkbox"/> Yes	Level 13		<a href="#">0 - Not Active</a>
14	<input checked="" type="checkbox"/> Yes	Level 14		<a href="#">0 - Not Active</a>
15	<input checked="" type="checkbox"/> Yes	Level 15		<a href="#">0 - Not Active</a>
16	<input checked="" type="checkbox"/> Yes	Level 16		<a href="#">0 - Not Active</a>

Save and Close | Save and New | Cancel

[Read hint on Local PIN, Key Card + PIN and HID AGK format here](#)

Enter floor name





**Controller - Add**

Name:

Description:

Model:

Address:

1. Click 'Lift Reader' tab

Controller Setting | Sub Lift | Fingerprint | **Lift Reader**

Parameters	Reader 1	Reader 2	Reader 3
Enable	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No
Name	<input type="text" value="Lift 1 Reader 1"/>		
Description	<input type="text" value="Lift 1 Reader 1"/>		
Reader Type	Standard Wiegand		
Bind to Lift	N/A	N/A	
Wiegand Option	<input checked="" type="radio"/> Single <input type="radio"/> Multiple	<input checked="" type="radio"/> Single <input type="radio"/> Multiple	
Wiegand Format	Wiegand 26-bits	Wiegand 26-bits	Wiegand 26-bits
Wiegand Group	N/A	N/A	N/A
Wiegand Group(s) Selection	<input type="text"/>	<input type="text"/>	<input type="text"/>
Activated Time Zone	<a href="#">1 - 24 Hours Active</a>	<a href="#">1 - 24 Hours Active</a>	<a href="#">1 - 24 Hours Active</a>

2. Enter reader name and description

Save and Close   Save and New   Cancel

[Read hint on Local PIN, Key Card + PIN and HID AGK format here](#)



**Controller - Add**

Name:

Description:

Model:

Address:

Controller Setting | Sub Lift | Fingerprint | **Lift Reader**

Parameters	Reader 1	Reader 2	Reader 3
Enable	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No
Name	Lift 1 Reader 1		
Description	Lift 1 Reader 1		
Reader Type	Standard Wiegand	Standard Wiegand	Standard Wiegand
Bind to Lift	N/A	N/A	N/A
Wiegand Option	<input checked="" type="radio"/> Single <input type="radio"/> Multiple	<input checked="" type="radio"/> Single <input type="radio"/> Multiple	<input checked="" type="radio"/> Single <input type="radio"/> Multiple
Wiegand Format	Wiegand 26-bits	Wiegand 26-bits	Wiegand 26-bits
Wiegand Group	<ul style="list-style-type: none"> <li>Wiegand 26-bits</li> <li>Wiegand 32-bits</li> <li>Wiegand 34-bits</li> <li>Wiegand 35-bits</li> <li>Wiegand 37-bits</li> <li>Custom</li> </ul>	N/A	
Wiegand Group(s) Selection			
Activated Time Zone		1 - 24 H	

Save and Close | Save and New | Cancel

[Read hint on Local PIN, Key Card + PIN and HID AGK format here](#)

Select 'Wiegand Group' format

**Notes:** Please select 'Wiegand 26-bits' for proximity reader and 'Wiegand 32-bits' for Mifare reader



**Controller - Add**

Name:

Description:

Model:

Address:

Controller Setting | Sub Lift | Fingerprint | **Lift Reader**

Parameters	Reader 1	Reader 2	Reader 3
Enable	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> No
Name	Lift 1 Reader 1		
Description	Lift 1 Reader 1		
Reader Type	Standard Wiegand	Standard Wiegand	Standard Wiegand
Bind to Lift	N/A	N/A	N/A
Wiegand Option	<input checked="" type="radio"/> Single <input type="radio"/> Multiple	<input checked="" type="radio"/> Single <input type="radio"/> Multiple	<input checked="" type="radio"/> Single <input type="radio"/> Multiple
Wiegand Format	Wiegand 32-bits	Wiegand 26-bits	Wiegand 26-bits
Wiegand Group	N/A	N/A	N/A
Wiegand Group(s) Selection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Activated Time Zone	<a href="#">1 - 24 Hours Active</a>	<a href="#">1 - 24 Hours Active</a>	

Click 'Save and Close' button

[Read hint on Local PIN, Key Card + PIN and HID AGK format here](#)



# Thank You

