

# **MOXA NPORT 5150 – UDP 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)

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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:



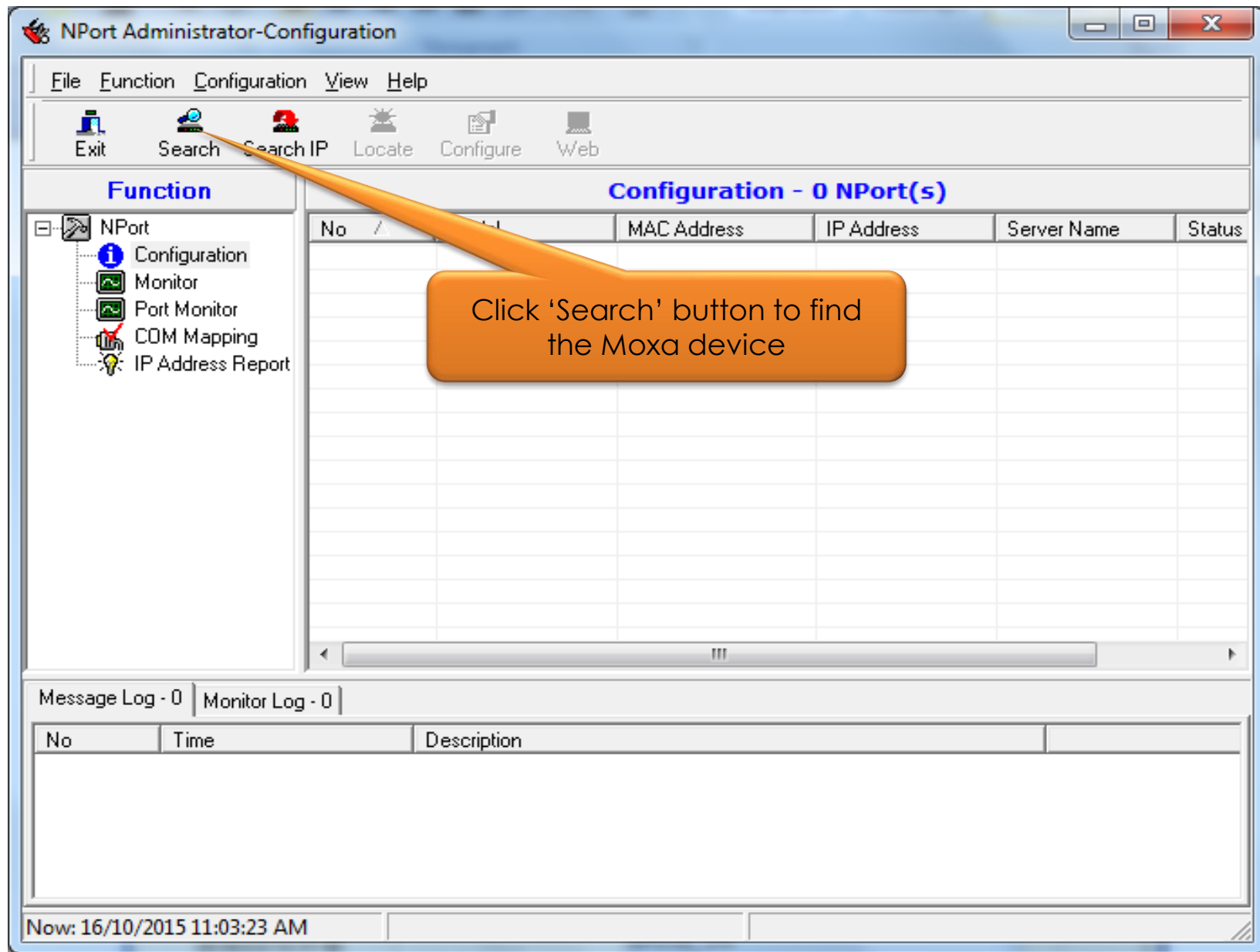
# **NPORT ADMINISTRATION SUITE PROGRAM**

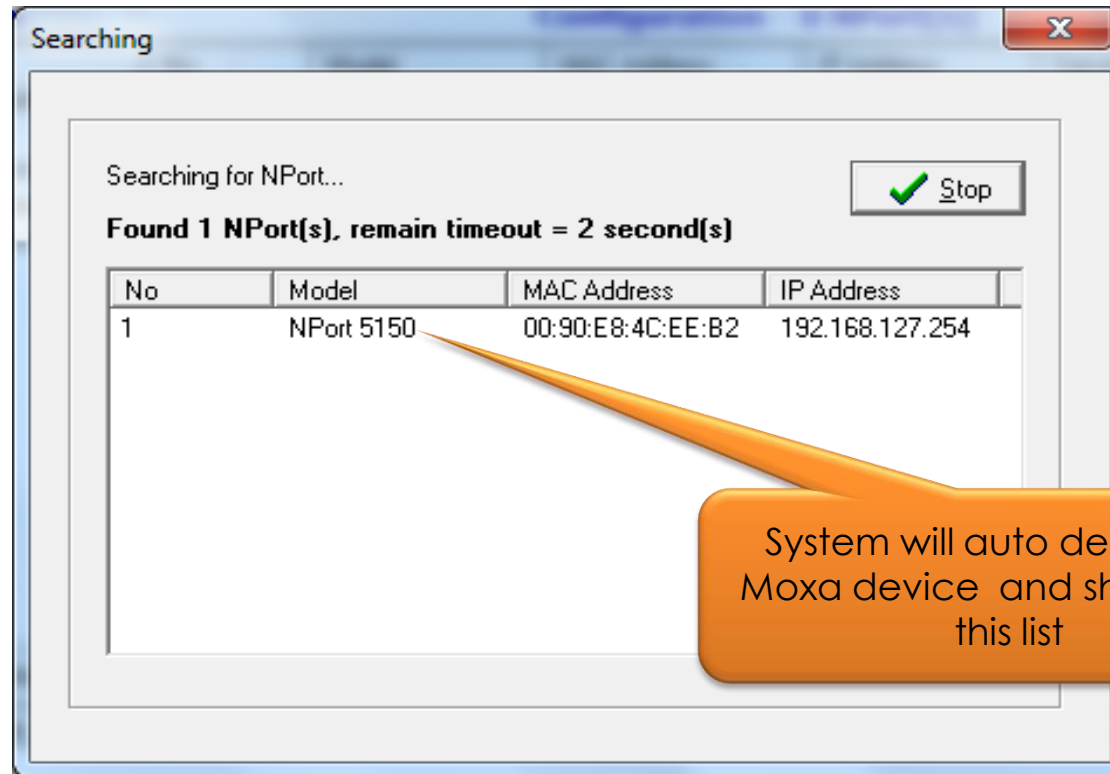
Version: 1.02

Last Updated: 24-06-2016

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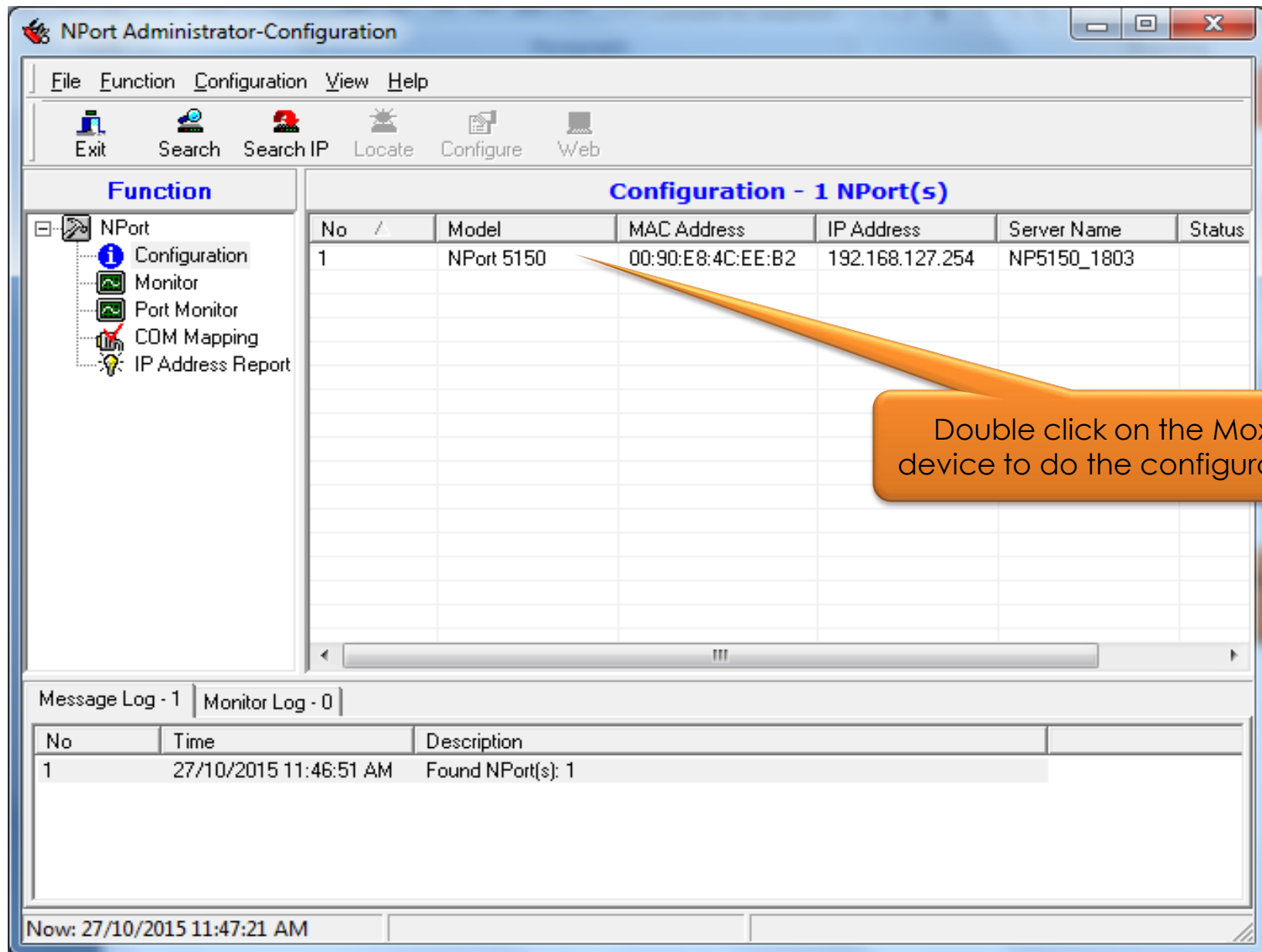


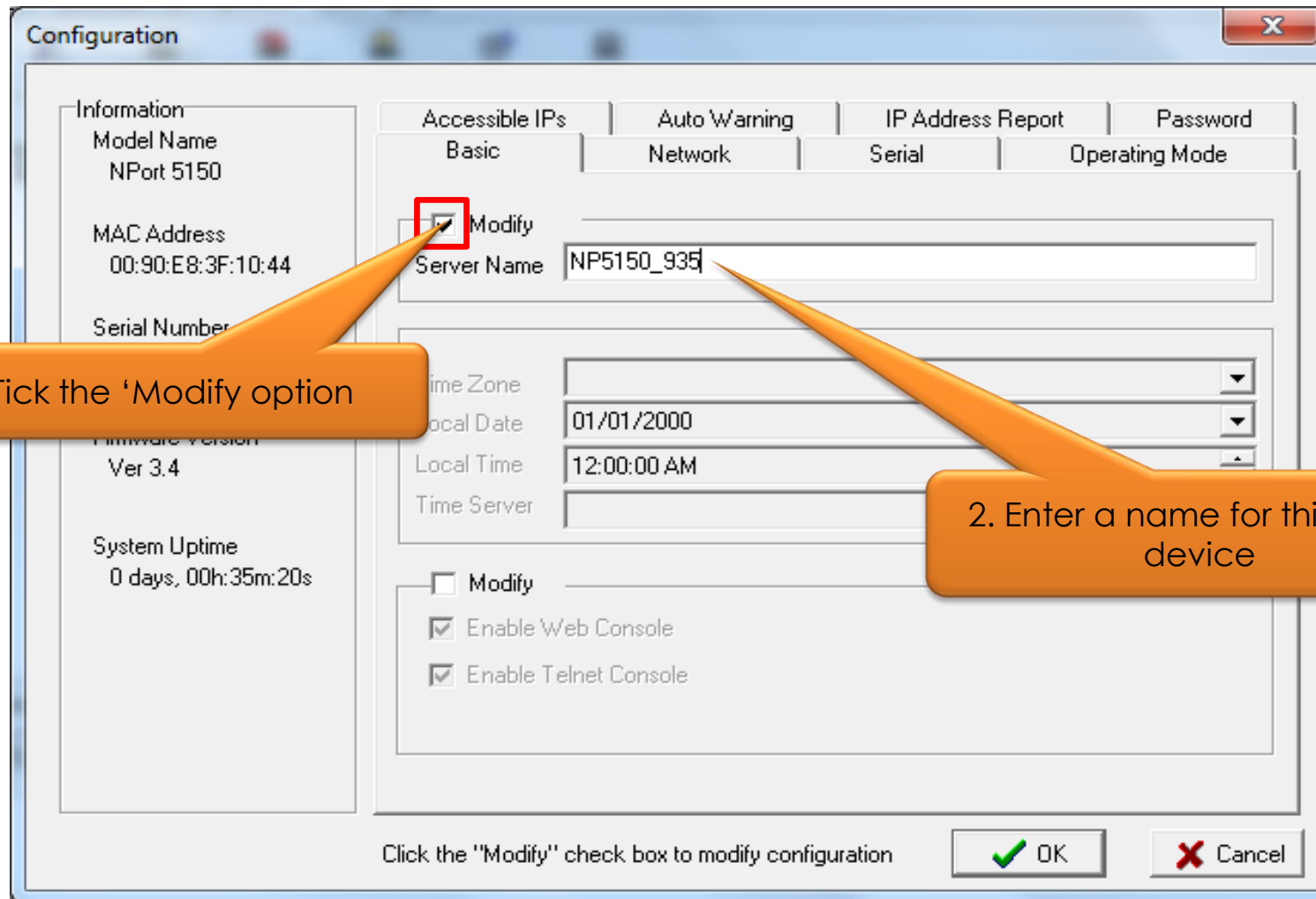


Notes:

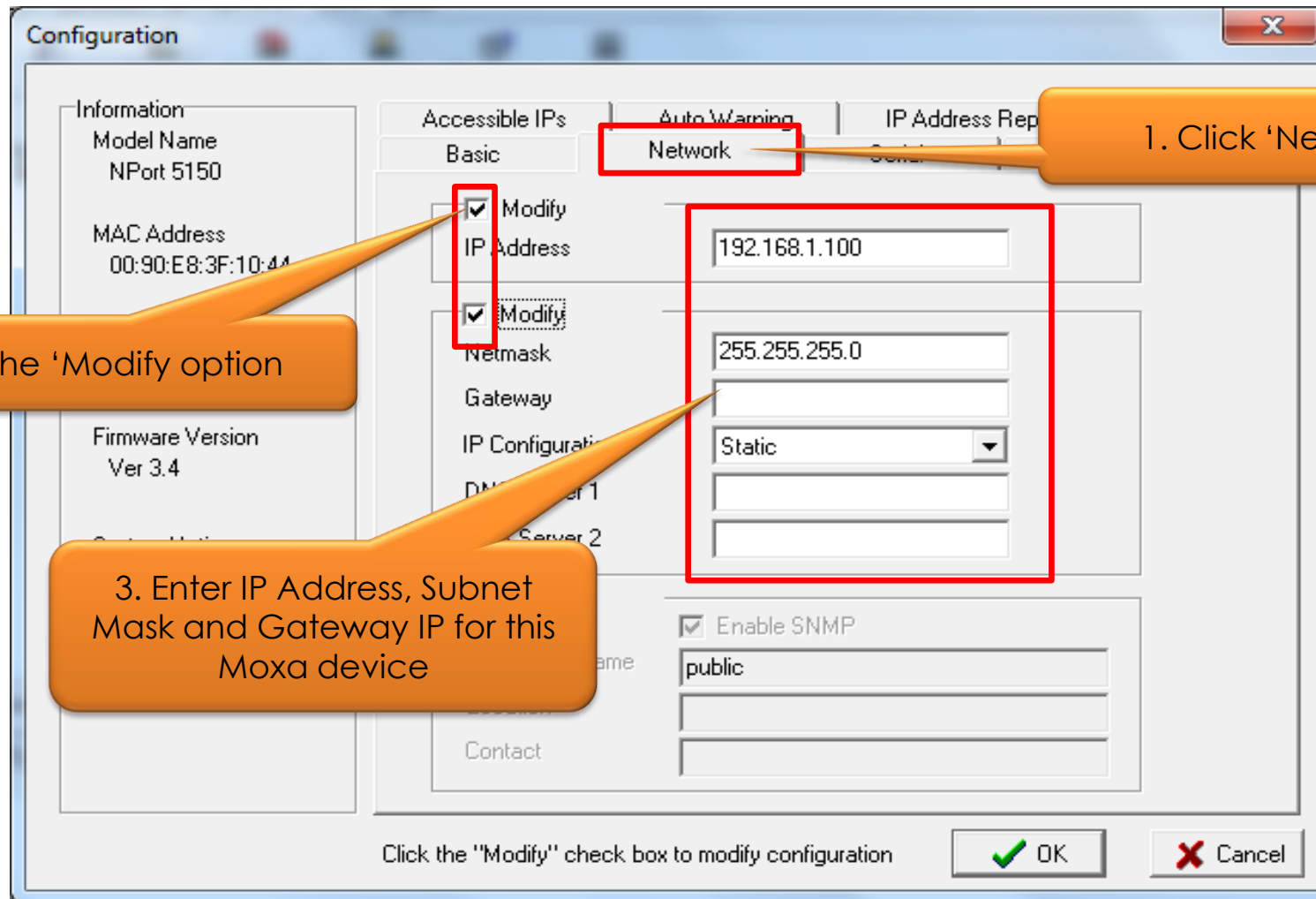
You can either click the 'Stop' button to end the searching process or waiting for the searching process timeout











The screenshot shows a 'Configuration' window for an NPort 5150 device. The 'Serial' tab is selected and highlighted with a red box. The 'Modify' checkbox is checked and also highlighted with a red box. An orange callout points to the 'Serial' tab with the text '1. Click 'Serial' tab'. Another orange callout points to the checked 'Modify' checkbox with the text '2. Tick the 'Modify' option'. A third orange callout points to the first row of the 'Port' table with the text '3. Double click 'Port 1' to edit 'Serial Setting''. The table has columns for 'Port', 'Alias', and 'Settings'. The first row contains '1', an empty cell, and '9600,N,8,1,No flowctrl'. At the bottom of the window, there is a footer with the text 'Click the "Modify" check box to modify configuration' and 'OK' and 'Cancel' buttons.

Port	Alias	Settings
1		9600,N,8,1,No flowctrl



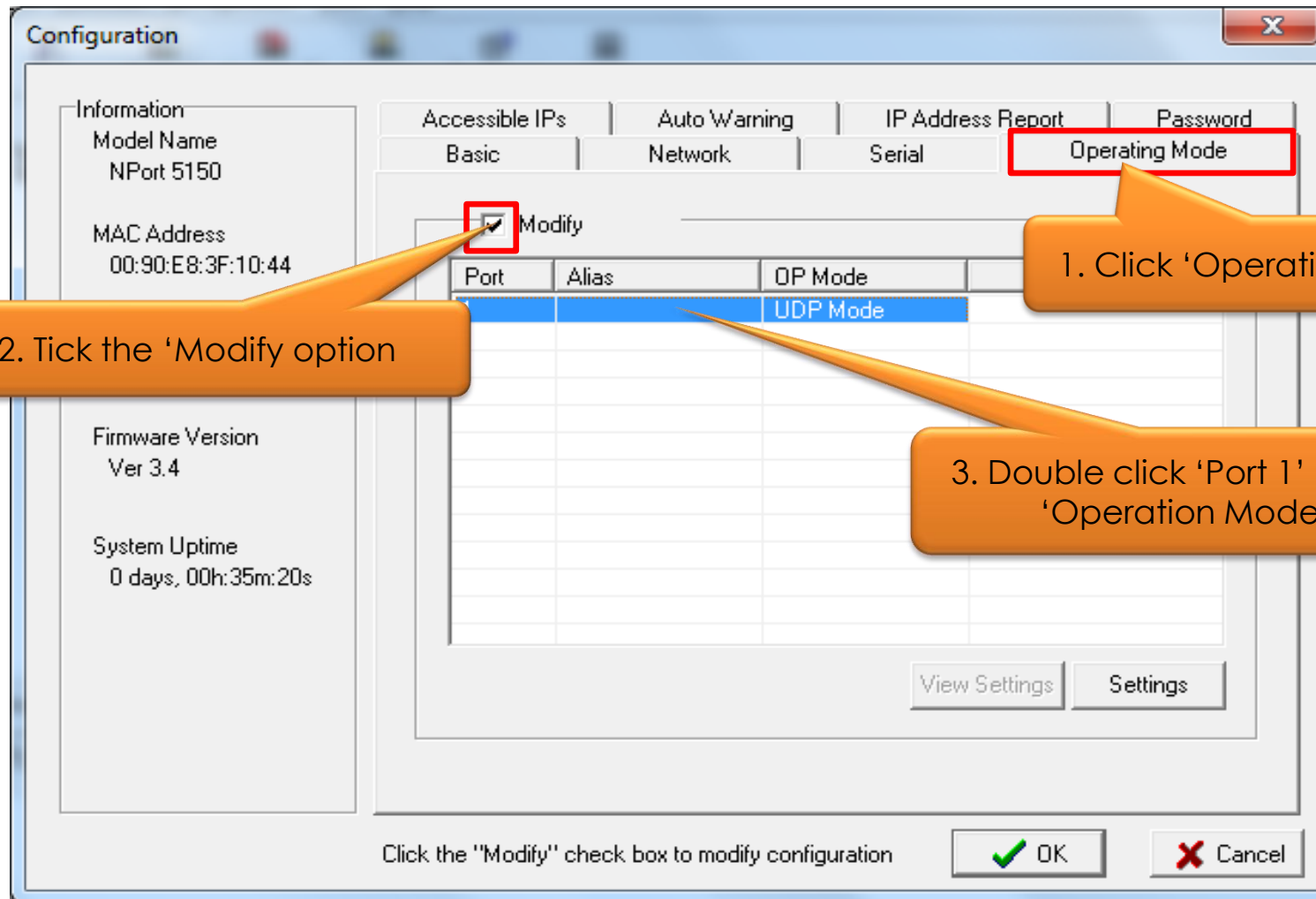
The image shows a 'Serial Settings' dialog box with the following configuration options:

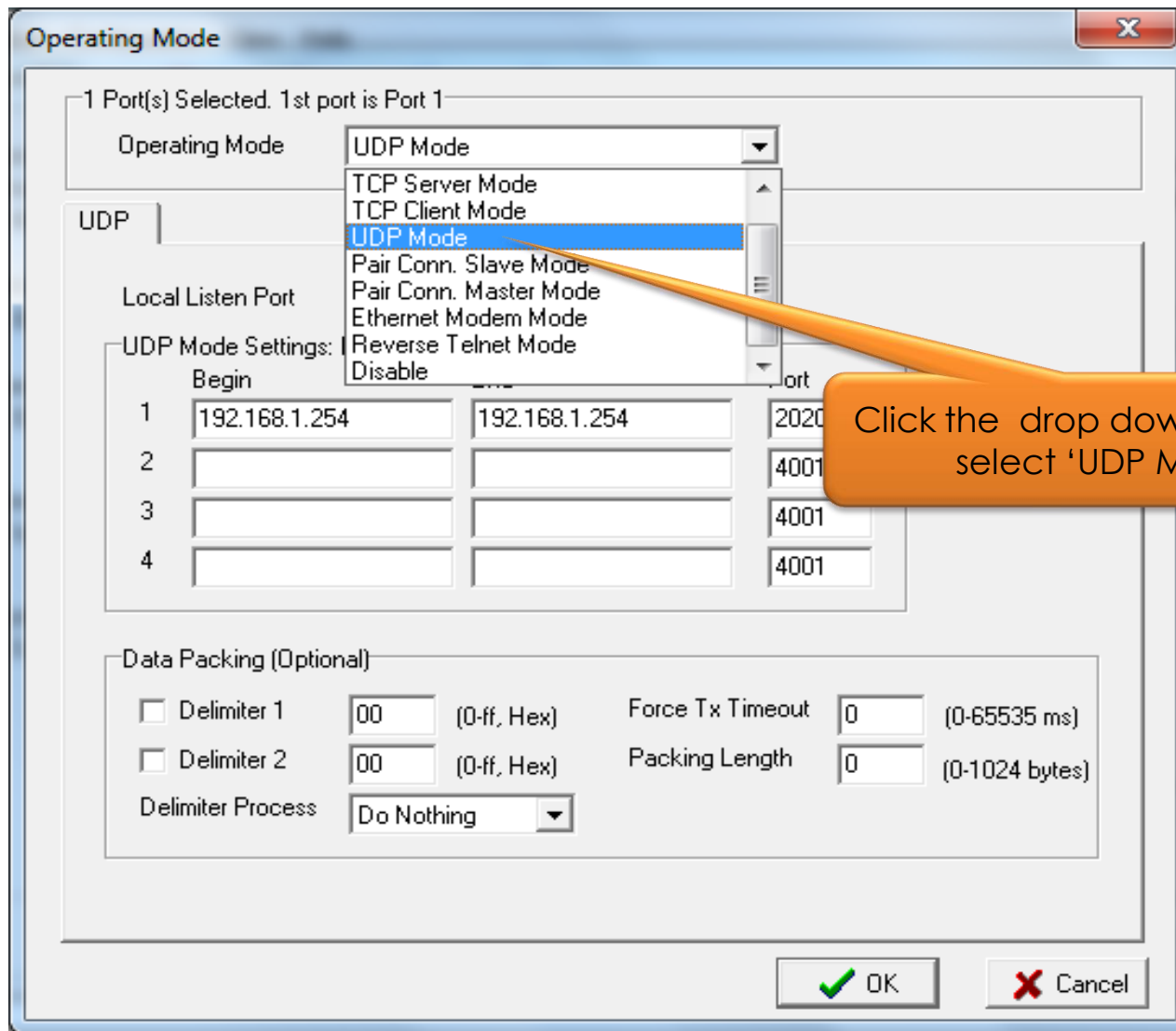
- 1 Port(s) Selected. 1st port is Port 1
- Apply port alias to all selected ports
- Port Alias: [Empty text box]
- Baud Rate: 9600
- Parity: None
- Data Bits: 8
- Stop Bits: 1
- Flow Control: None
- FIFO: Enable
- Interface: RS-485, 2 wire

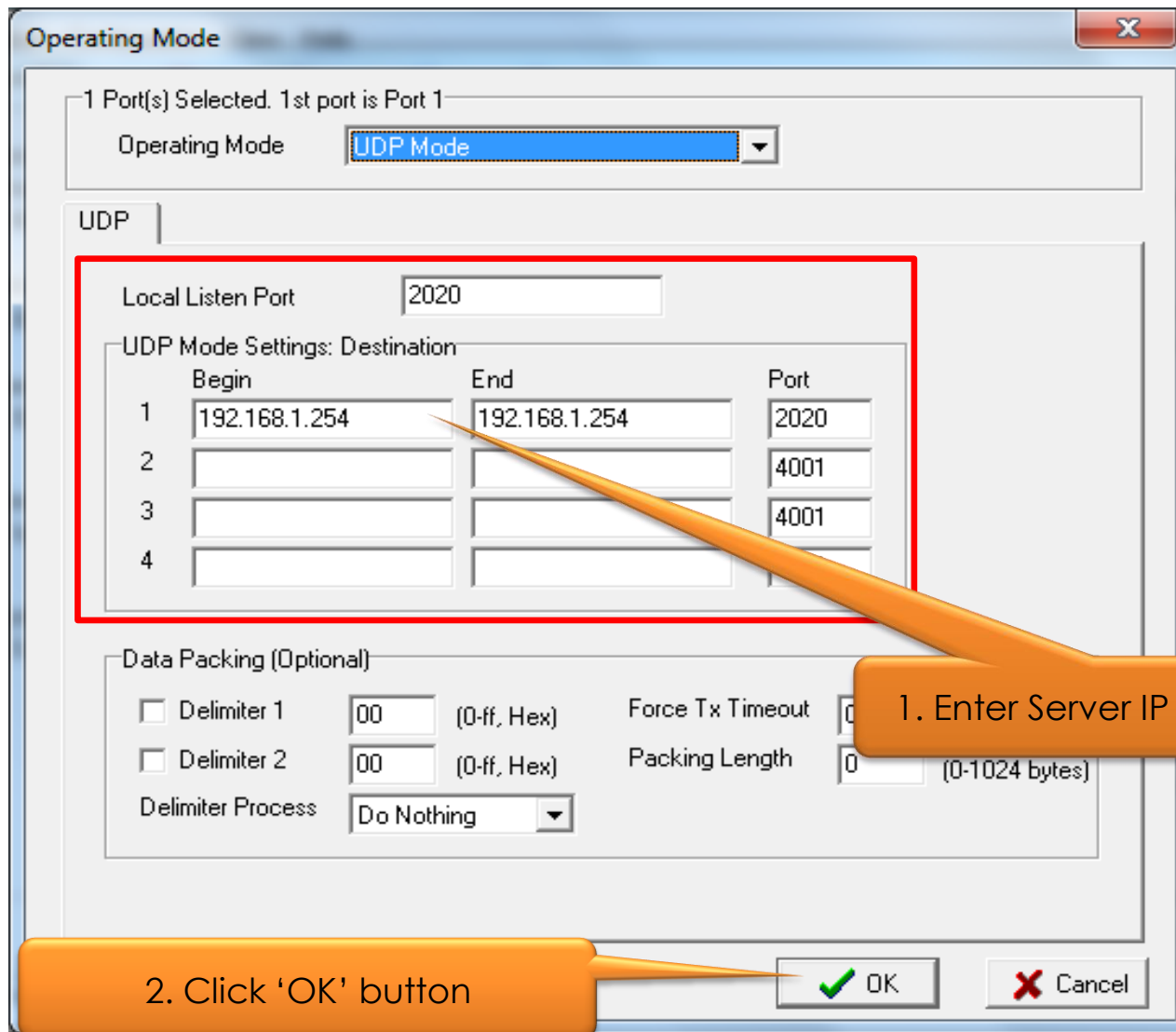
Callout 1 (top right): 1. Configure all the serial setting as show on this windows

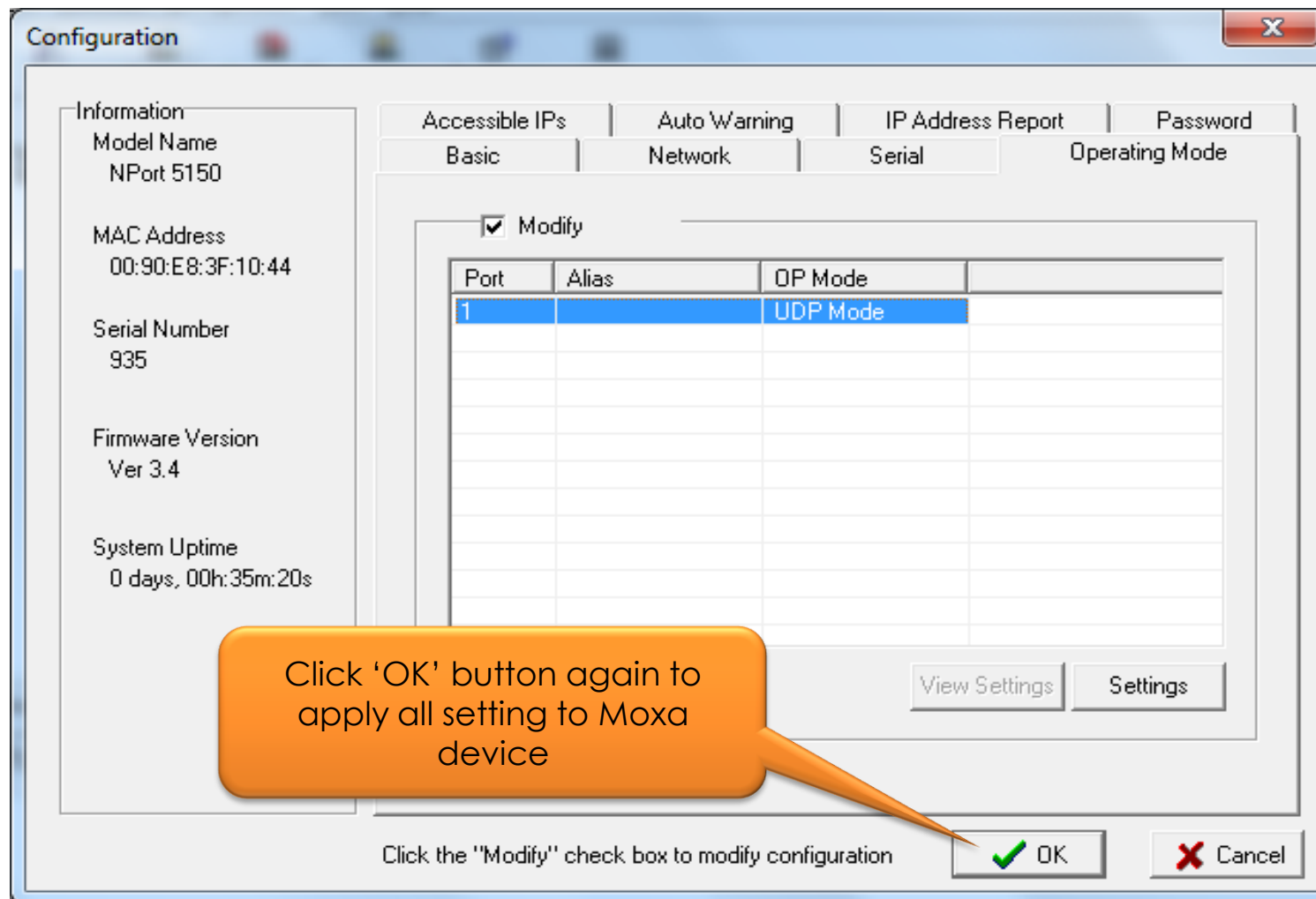
Callout 2 (bottom left): 2. Click 'OK' button to save the setting

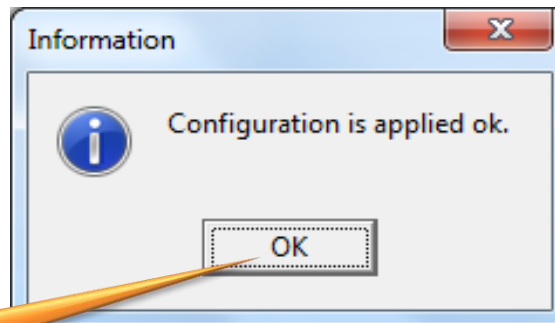












Click 'OK' button to end the configuration

Notes:

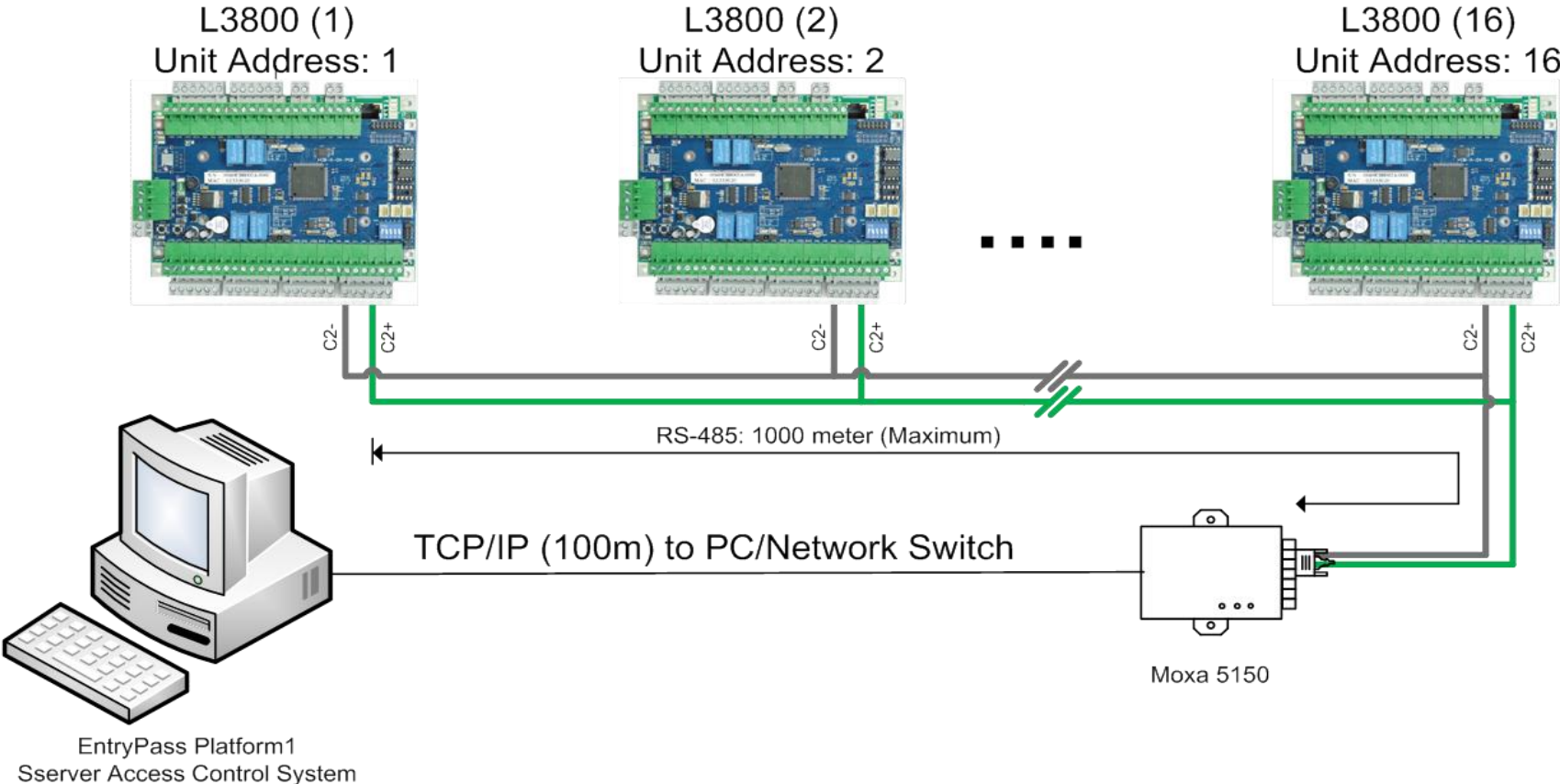
You will see the above windows showing, if all the settings are applied successfully to Moxa device





# 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\_5100\_Series\_Users\_Manual\_v1.pdf - Adobe Reader

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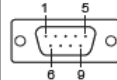
**Bookmarks**

- 1. Introduction
- 2. Getting Started
- 3. Initial IP Address Configuration
- 4. Choosing the Proper Operation Mode
- 5. Web Console Configuration
- 6. Configuring NPort Administrator
- 7. IP Serial LIB
  - A. Pinouts and Cable Wiring
  - B. Well Known Port Numbers
  - C. SNMP Agents with MIB II & RS-232/422/485 Link Groups
  - D. Auto IP Report Protocol
  - E. Service Information

**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**

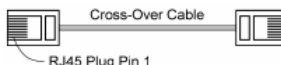


RJ45 Plug Pin 1

**Cable Wiring**

3	3
6	6
1	1
2	2

**Cross-Over Cable**



RJ45 Plug Pin 1

**Cable Wiring**

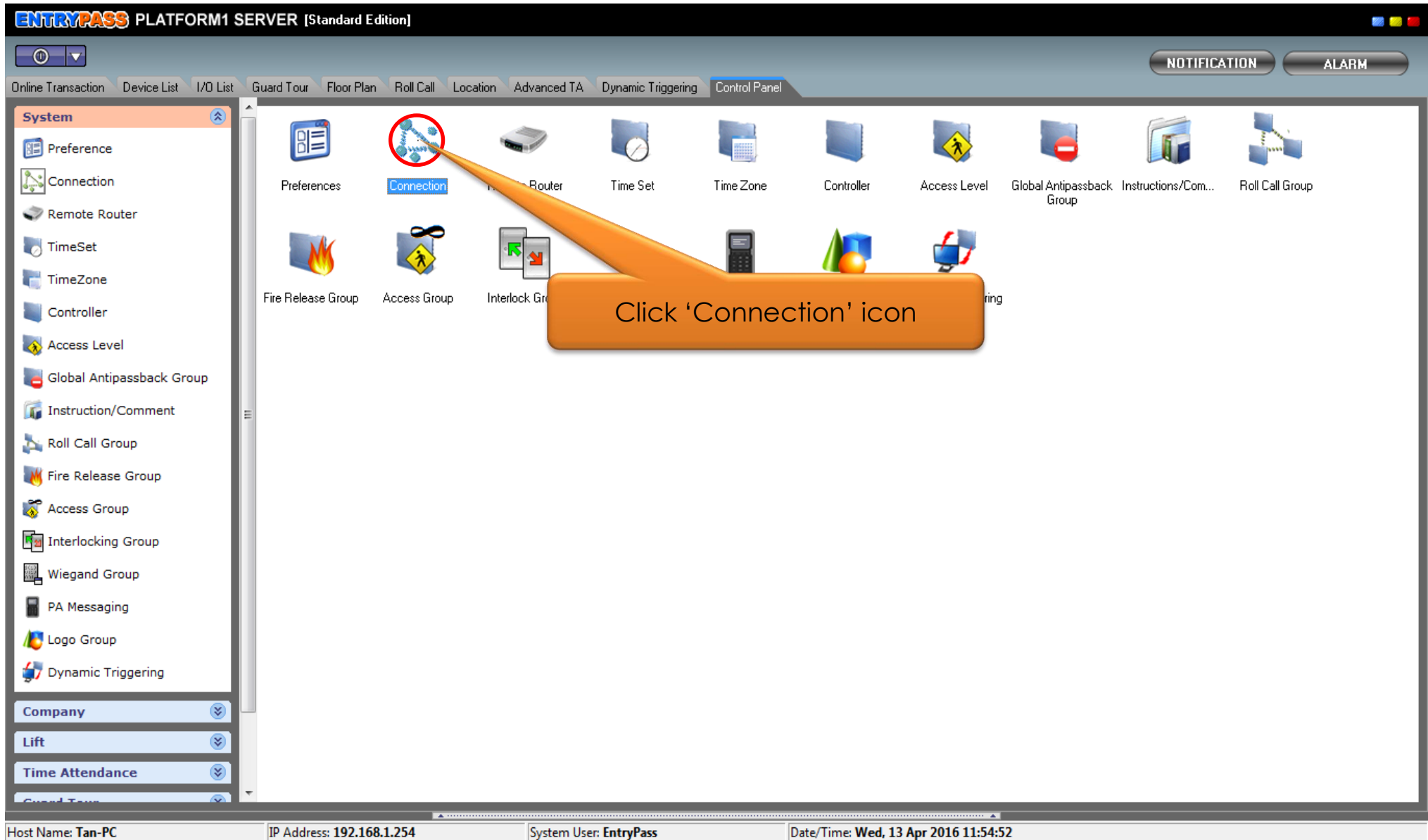
3	1
6	2
1	3
2	6

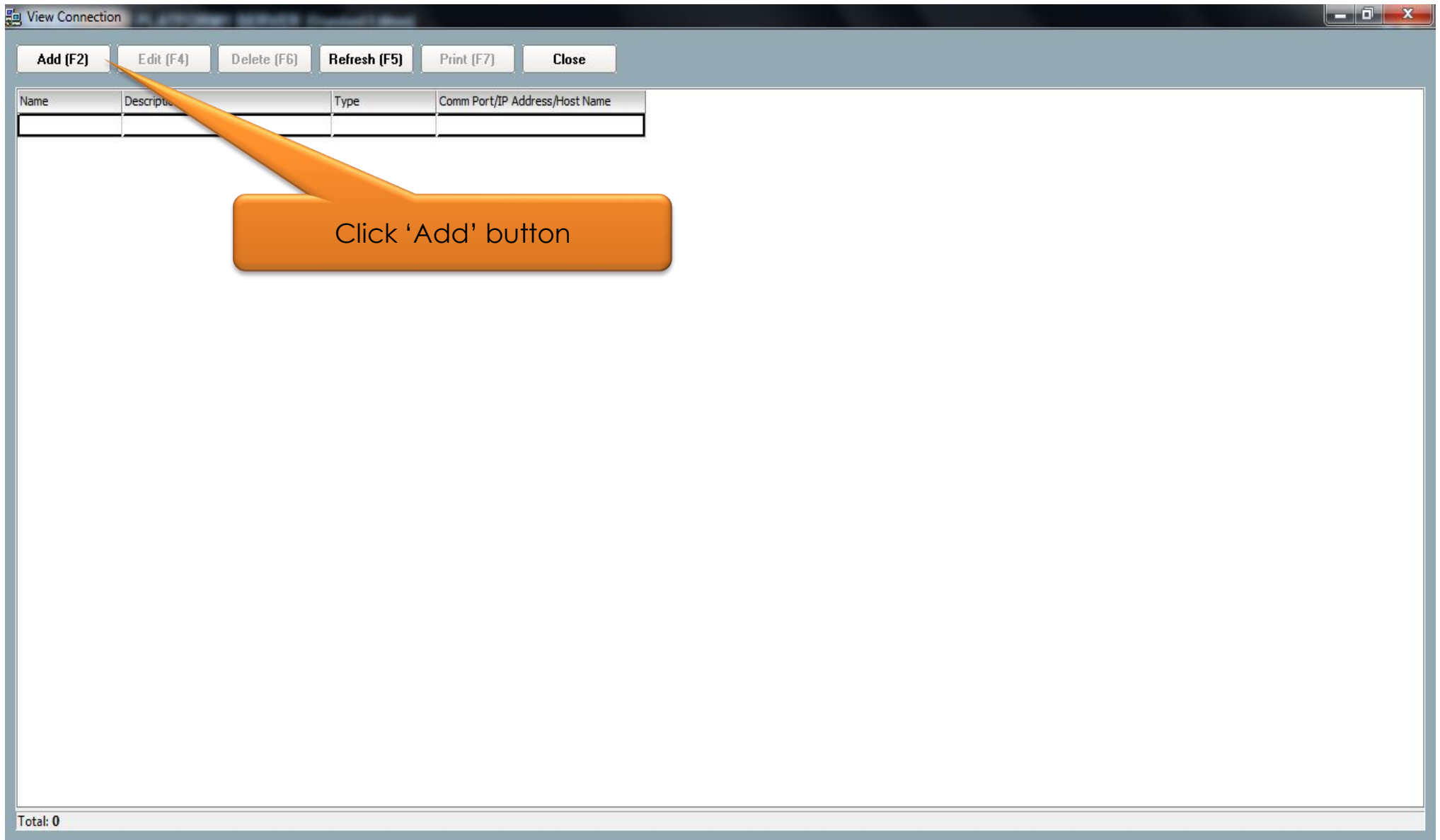
start | NPort Administrator | Document1 - Microsof... | Document | NPort\_5100\_Series\_... | 4:47 PM



# EntryPass Platform1 Server Setting







The screenshot shows the 'Connection - Add' dialog box with the following fields and callouts:

- 1. Enter name and description:** Callout pointing to the 'Name' and 'Description' fields, both containing 'Moxa N5150'.
- 2. Select 'Type' as 'Network Interface Unit':** Callout pointing to the 'Type' dropdown menu, which is set to 'Network Interface Unit'.
- 3. Enter Moxa device IP address and Port No.:** Callout pointing to the 'Connect by' dropdown (set to 'IP Address'), the 'IP Address' field (containing '192.168.1.200'), and the 'Port No.' field (containing '2020').
- 4. Click 'Save and Close' button:** Callout pointing to the 'Save and Close' button at the bottom left.



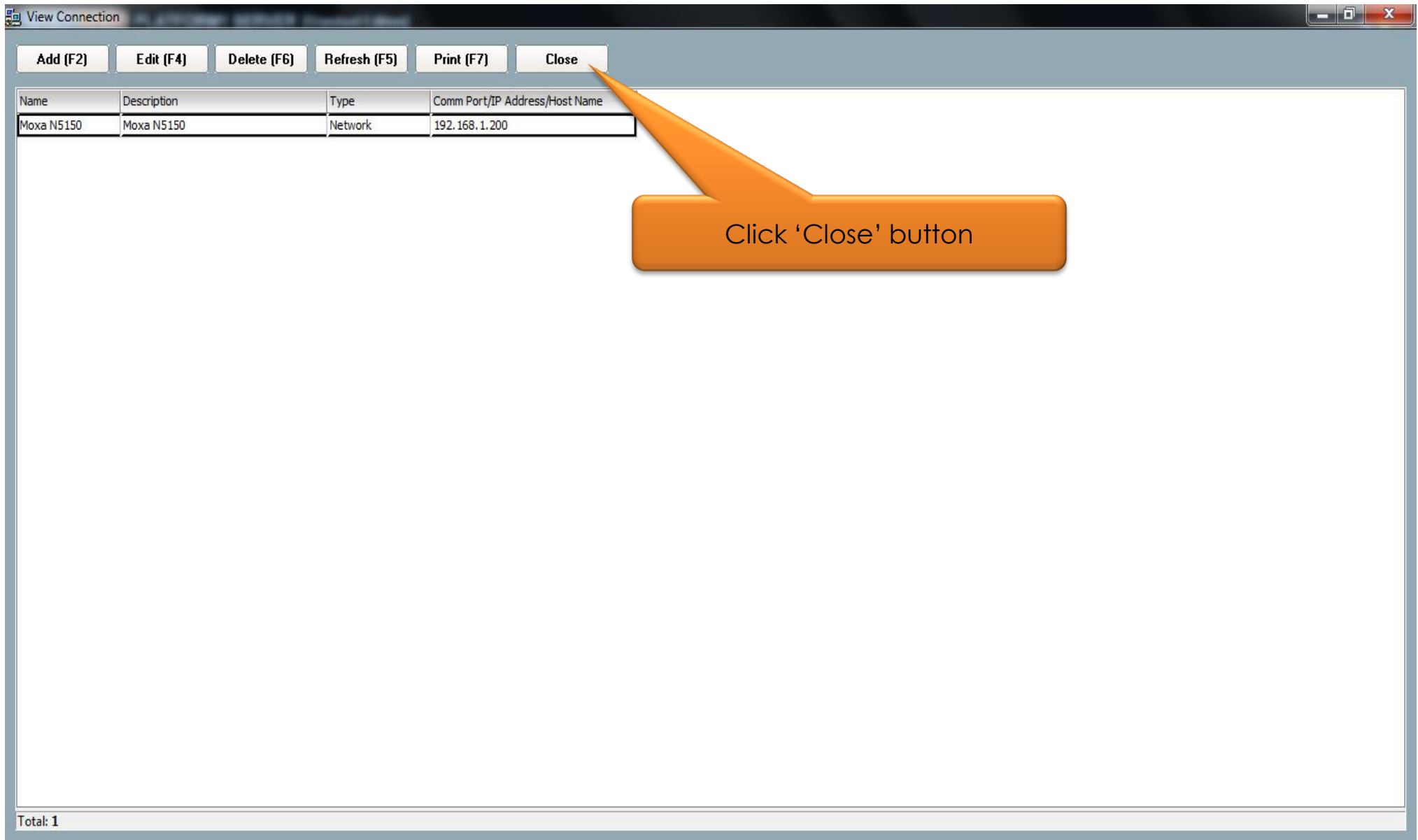
View Connection

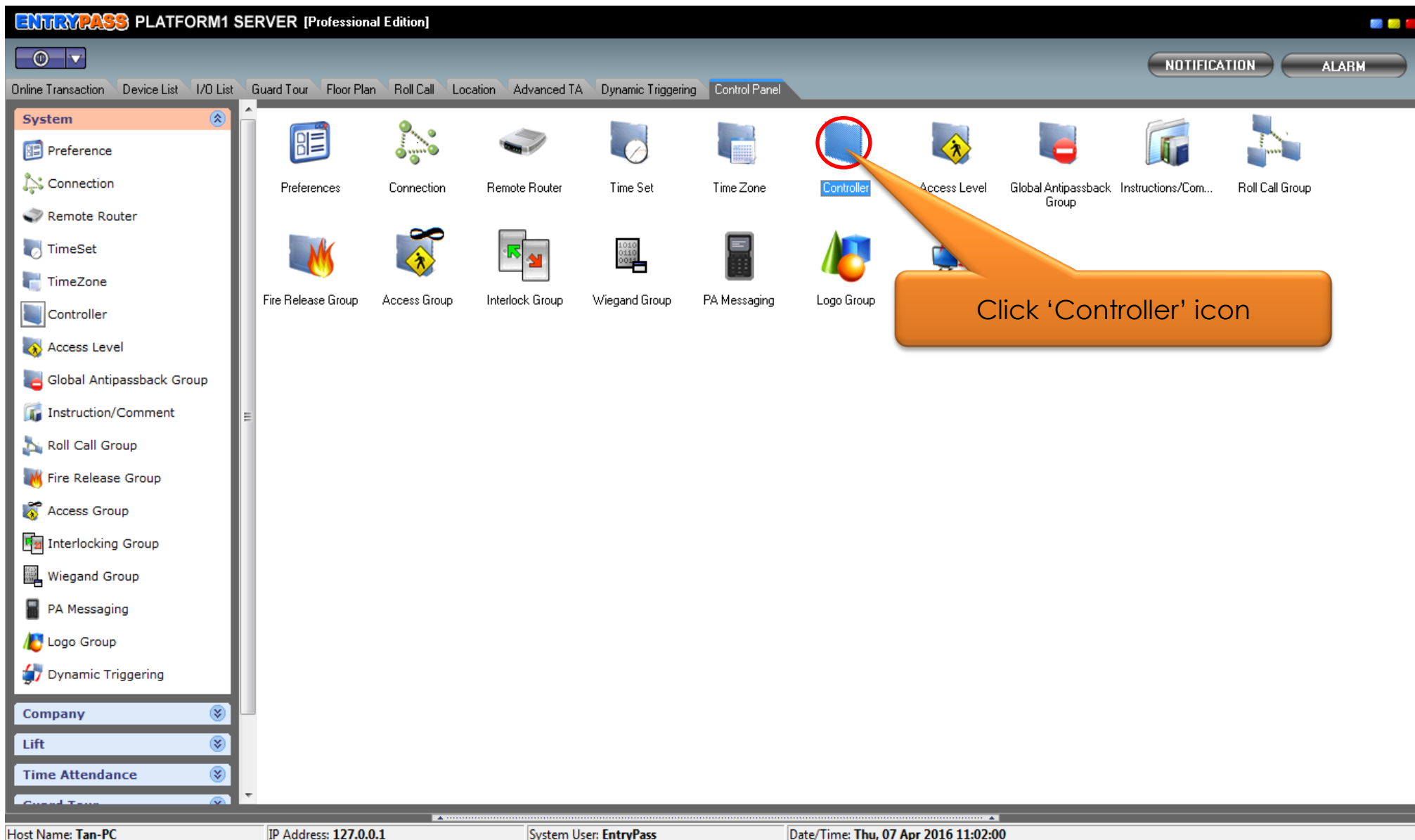
Add (F2) Edit (F4) Delete (F6) Refresh (F5) Print (F7) Close

Name	Description	Type	Comm Port/IP Address/Host Name
Moxa N5150	Moxa N5150	Network	192.168.1.200

Click 'Close' button

Total: 1

The image shows a software window titled "View Connection". At the top, there are several buttons: "Add (F2)", "Edit (F4)", "Delete (F6)", "Refresh (F5)", "Print (F7)", and "Close". Below these buttons is a table with four columns: "Name", "Description", "Type", and "Comm Port/IP Address/Host Name". The table contains one row with the following data: "Moxa N5150", "Moxa N5150", "Network", and "192.168.1.200". An orange callout bubble points from the "Close" button to a larger orange button that says "Click 'Close' button". At the bottom left of the window, it says "Total: 1".



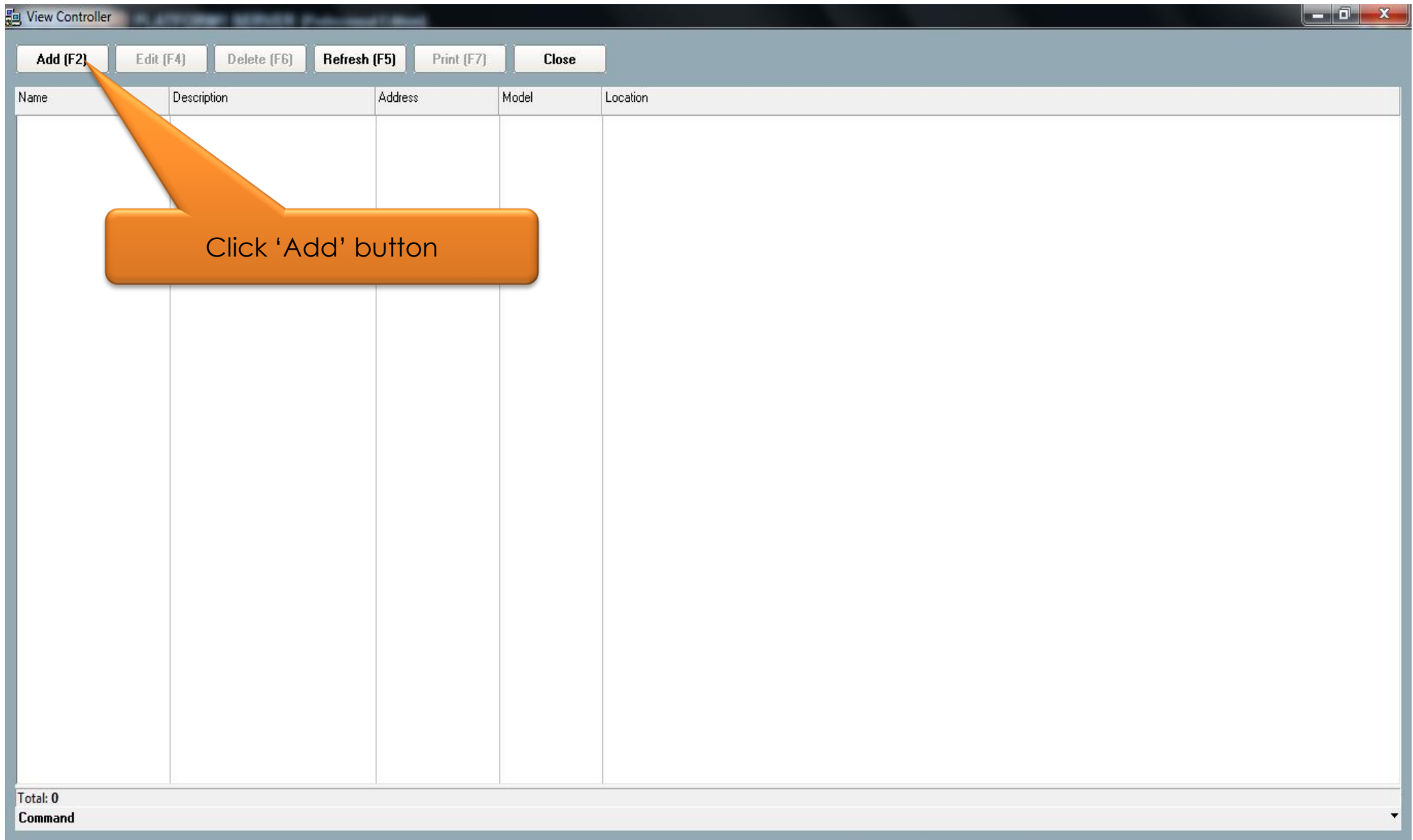


View Controller

Add (F2) Edit (F4) Delete (F6) Refresh (F5) Print (F7) Close

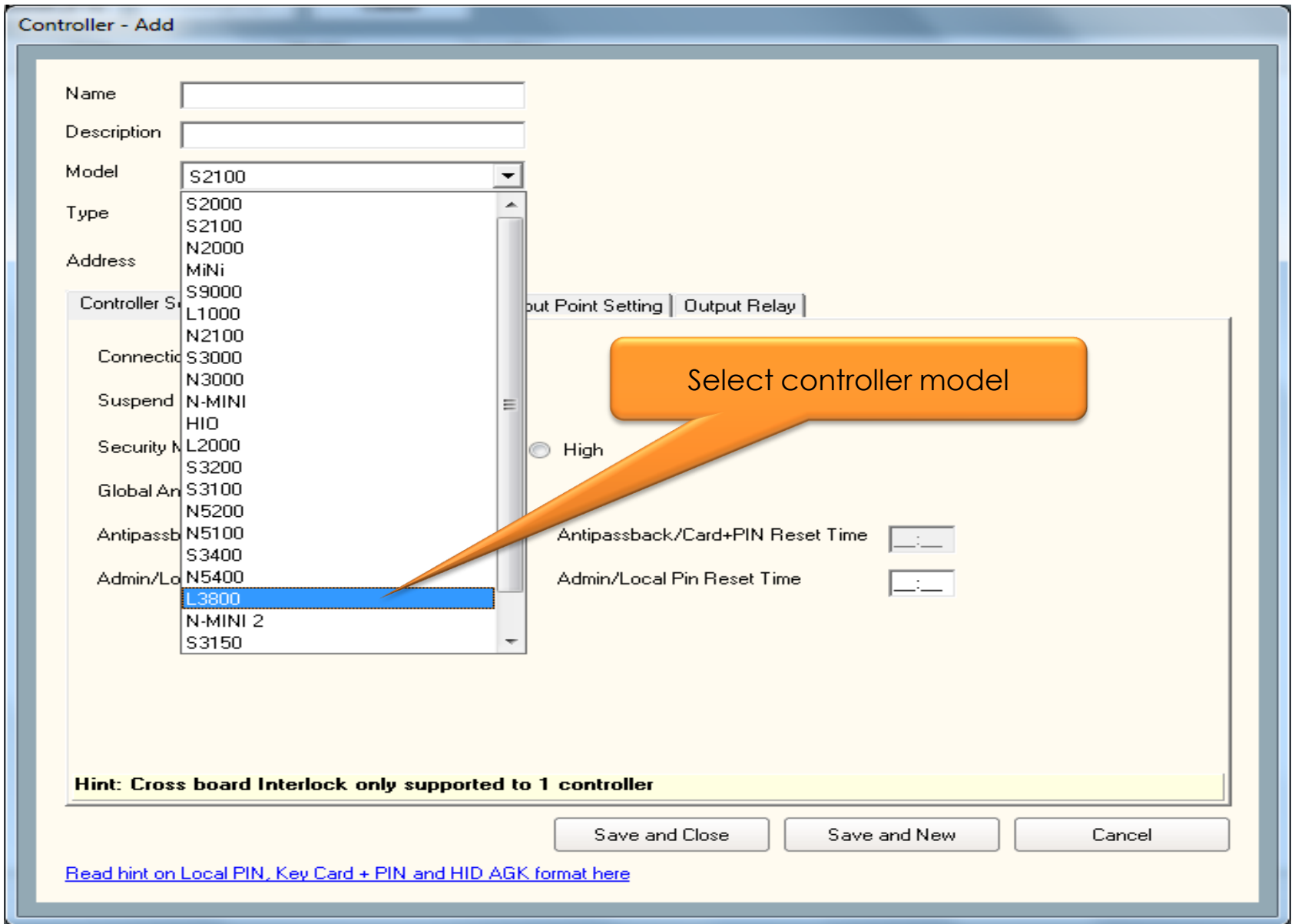
Name	Description	Address	Model	Location
------	-------------	---------	-------	----------

Total: 0  
Command



The screenshot shows a software window titled 'View Controller'. At the top, there is a toolbar with six buttons: 'Add (F2)', 'Edit (F4)', 'Delete (F6)', 'Refresh (F5)', 'Print (F7)', and 'Close'. Below the toolbar is a table with five columns: 'Name', 'Description', 'Address', 'Model', and 'Location'. The table is currently empty. An orange callout box with a pointer pointing to the 'Add (F2)' button contains the text 'Click 'Add' button'. At the bottom left of the window, there is a status bar showing 'Total: 0' and a 'Command' input field.





**Controller - Add**

Name

Description

Model

Address

Controller Setting | Sub Lift | Fingerprint | Lift Reader

Connection [Undefined](#)

Suspend Polling  No

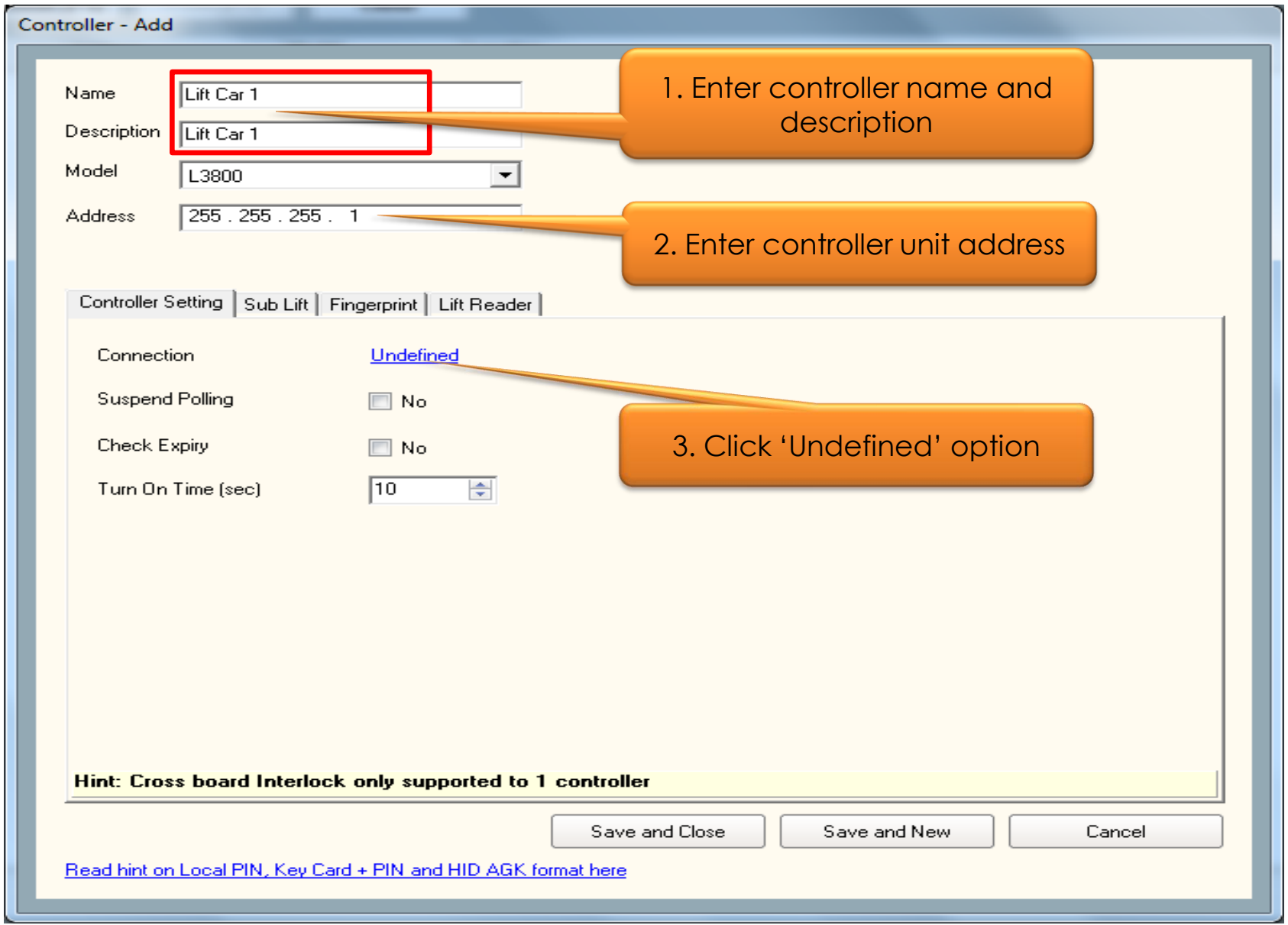
Check Expiry  No

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



View Connection

Add (F2) Edit (F4) Delete (F6) Refresh (F5) Print (F7) Close Select

Name ^	Description	Type	Comm Port/IP Address/Host Name
Comport	Comport	Serial	Comm 6
Moxa N5150	Moxa N5150	Network	192.168.1.200

1. Choose connection type

2. Click 'Select' button

Total: 2



Controller - Add

Name

Description

Model

Address

Click 'Sub Lift' tab

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

Connection [Moxa N5150 - Moxa N5150](#)

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



**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

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
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>

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: 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	Lift 1 Reader 1		
Description	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="text"/>	<input type="text"/>	<input type="text"/>
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

