# Quick Installation and Setup for controlUNIT Software

A. On the controlUNIT Installation menu, simply follow on-screen instructions and key in the software serial number. The installation will be automatically proceeded.
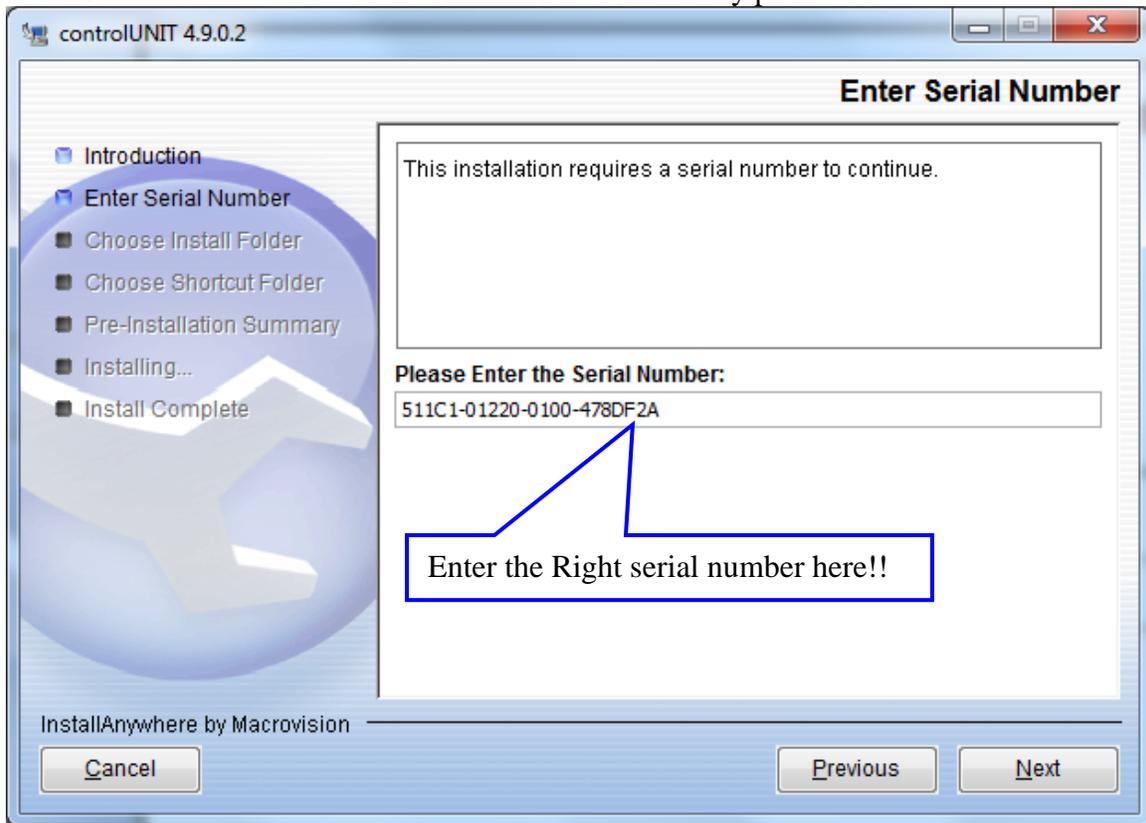

B. The software will start automatically after the Operation System is started. controlUNIT appears as a "Green Plug" icon in the right bottom corner of the Traybar.

It means the controlUNIT is running
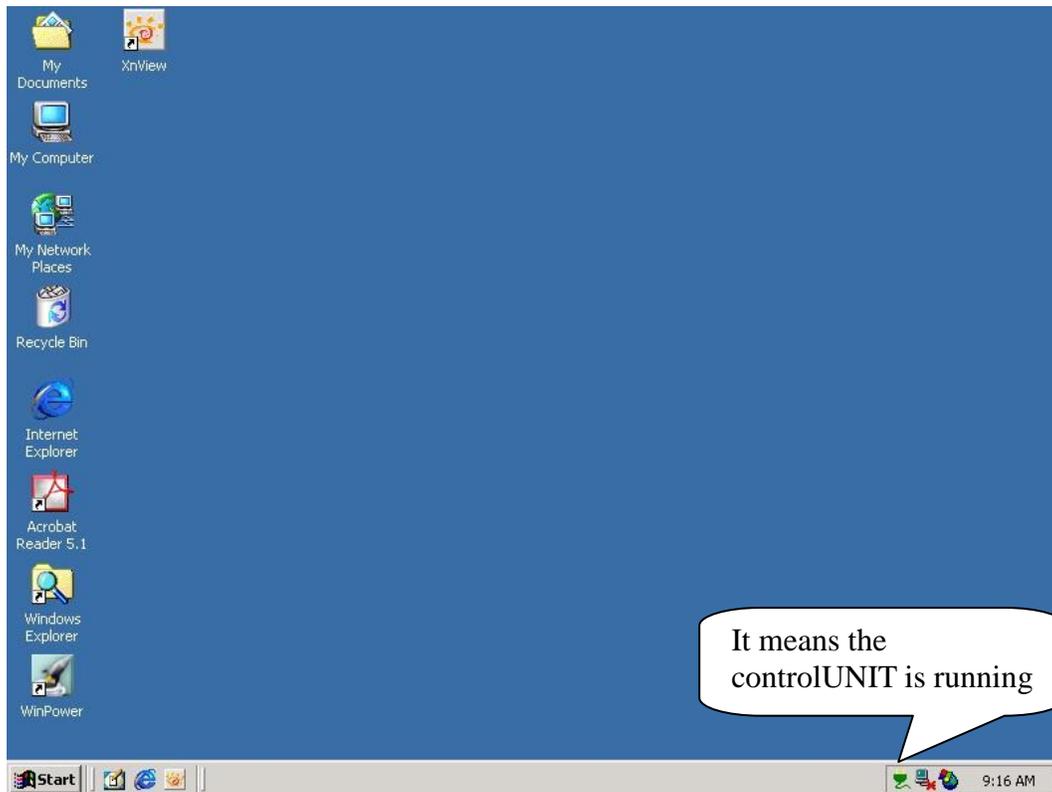
C. After you start the system and the controlUNIT is also running in the Traybar, you have to use "Right Click" on the Green Plug then click on "Start the Monitor "to switch on the main screen of the software.

Right Click here then click on " Start Monitor "
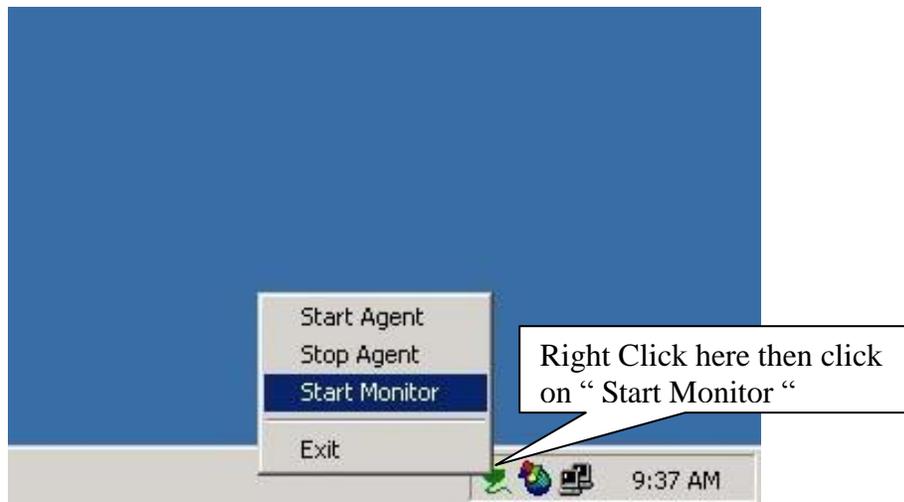
D. After step C, you would see the screen is switching on as below message. After it runs to 100% you will see the main screen of the software.
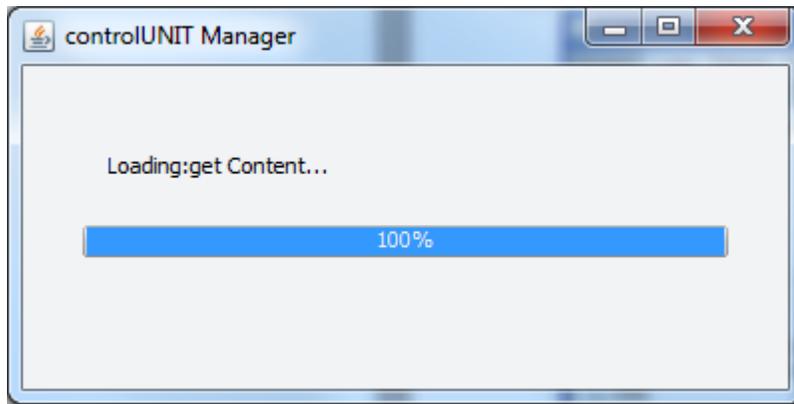
E. Here is the main screen of the software. Before you login the software as an administrator, you will see a (**Read only**) message on the title of the software. It means that you only can monitor the UPS and you cannot change any setting of the software or the UPS.
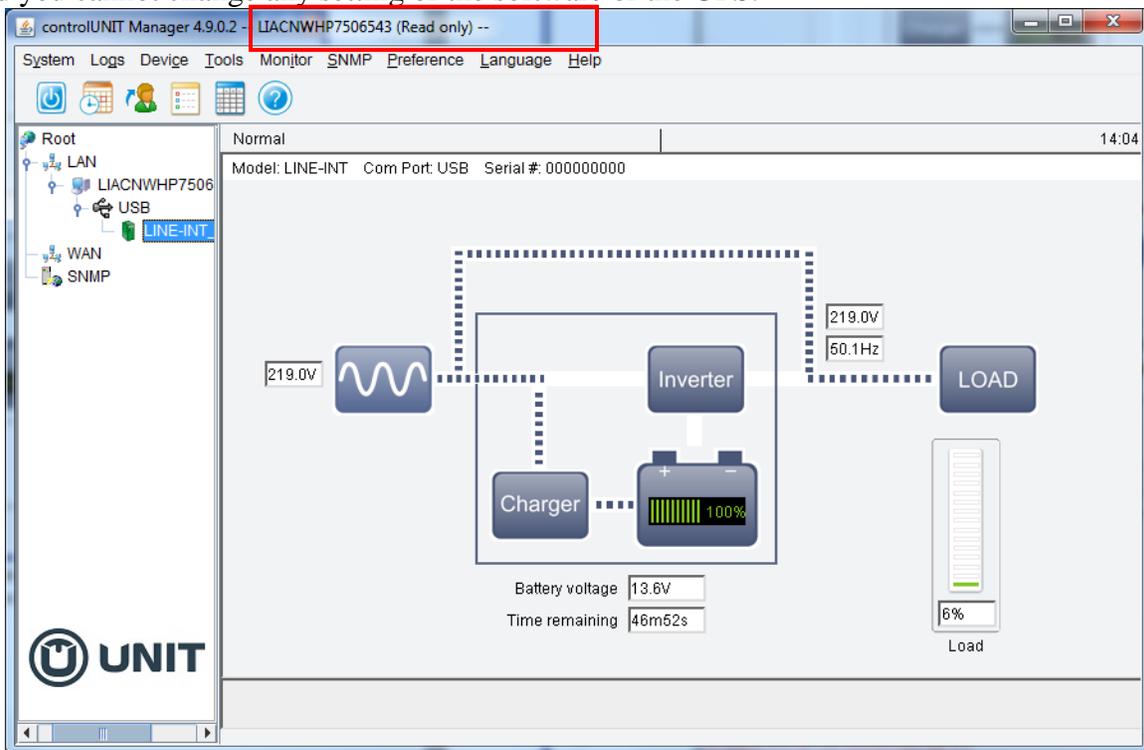
F. To change settings, you need to log in controlUNIT as an administrator by going to "Act as Administrator" option of System section.   The default password is Administrator.

The default password is **Administrator**
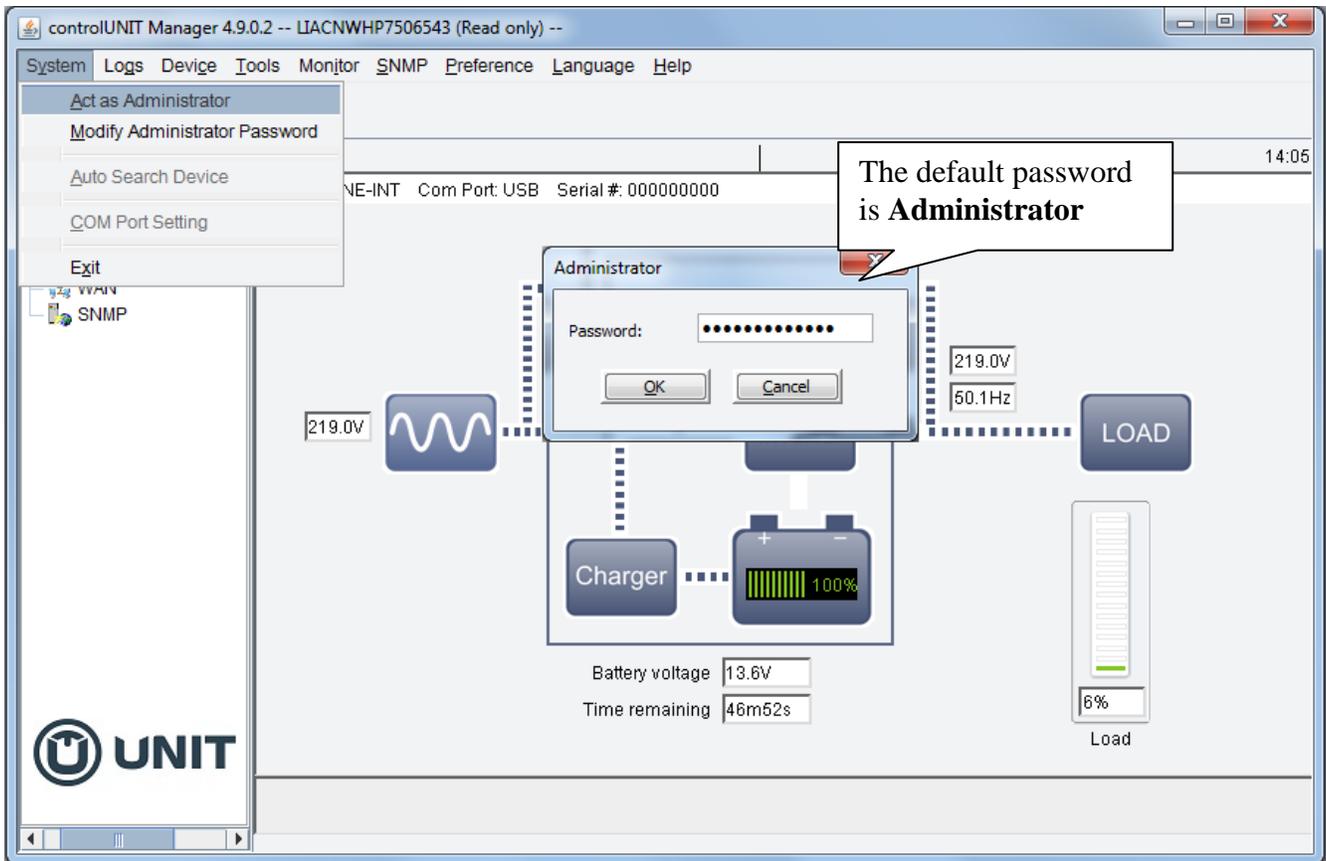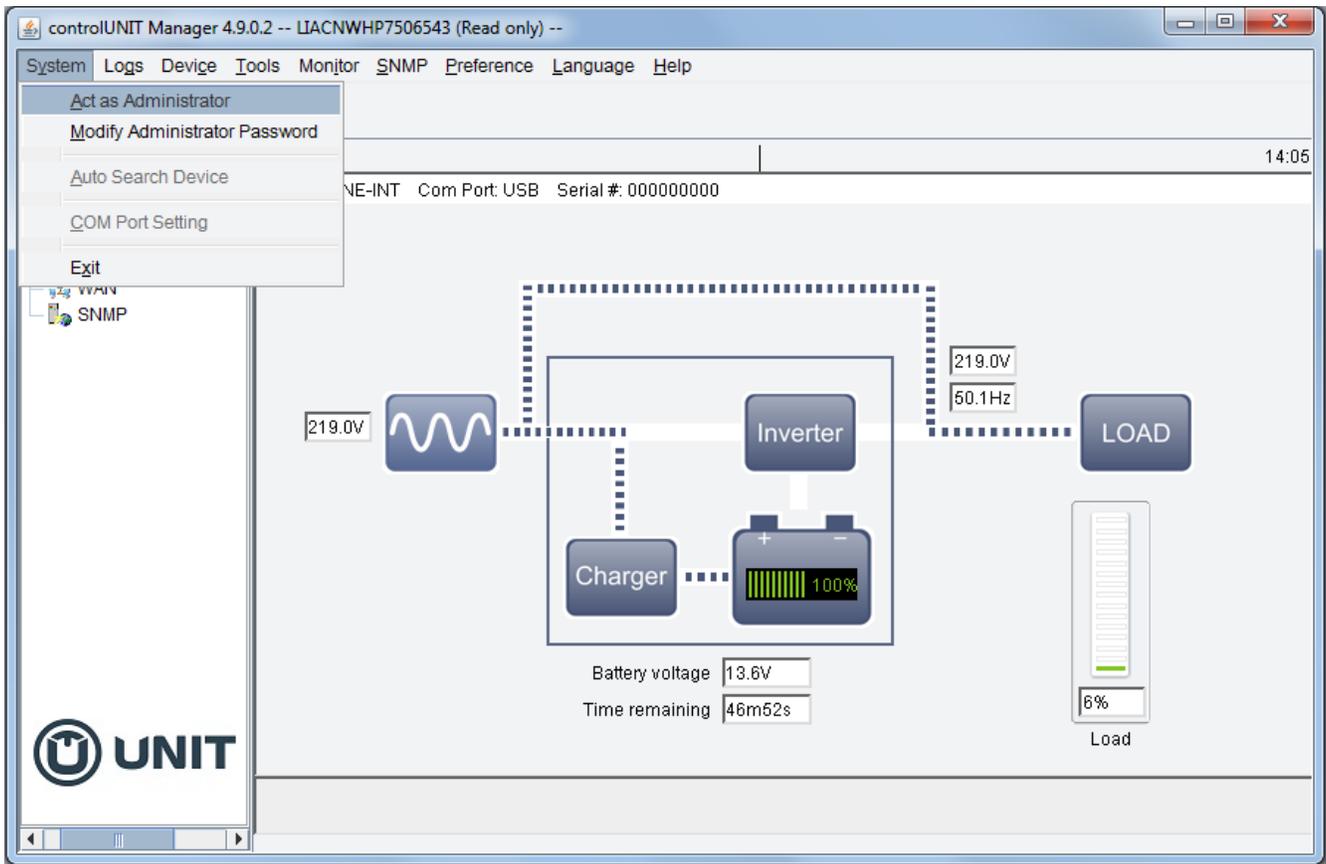
G. Now, you can find the information of **(Read only)** is gone. Hence, you can go access other sheets of the software to have your own setting for the software and the UPS now.
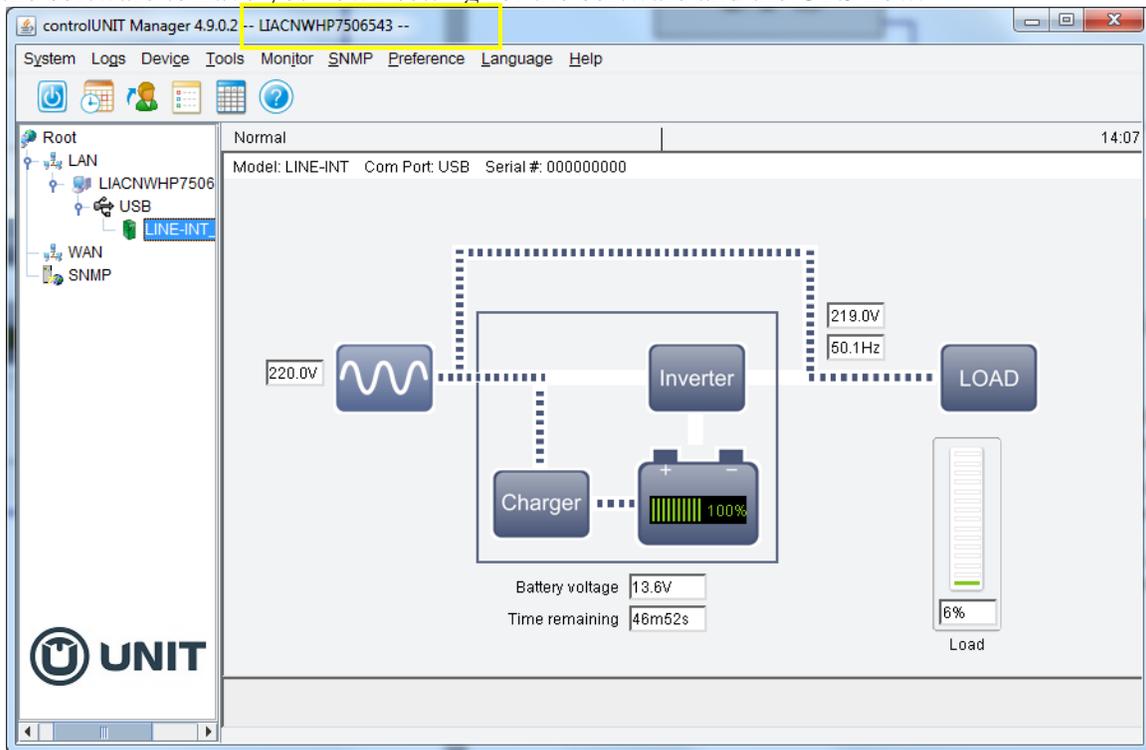
Function Explanation of "Shutdown Parameter"
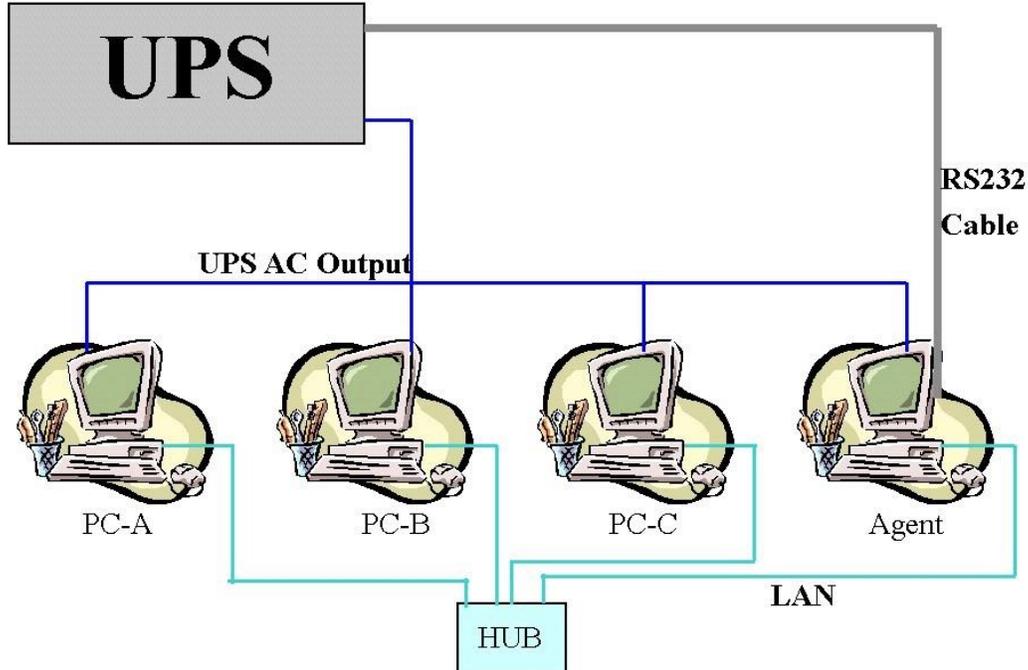
1. To support the remote monitor/control function of controlUNIT, you need to have the similar connection as above. It means that the Agent is connected to the UPS via RS232/USB and the other Computers are protected via the AC Power only and all the computers are communicated under the same Network with LAN.
2. All the computers need to install the controlUNIT software to keep them with the same interface for remote shutdown application. **If you don't install the controlUNIT on them then you would not able to do the remote monitor/control.**
3. Owing to the fact that there is no RS232 cable connect to PC-A ~ PC-C, so you will see the message of "no connection". Moreover, you would find that these PC is without the ☞ in the front of the PC listed in the controlUNIT monitor screen as below.

controlUNIT Manager 4.9.0.2 -- santak-9d459a05 (Read only) --

System | Logs | Device | Tools | Monitor | SNMP | Preference | Language | Help

Root
└ LAN
   ├ santak-9d459a05
   │ ├ LIACNWHP7505216
   │ └ LIACNWHP7505570
   ├ pc28
   ├ LIACNWHP7506159
   ├ pc27
   │ └ test-tests-power-mac-
   ├ santak-64mrwtrp
   ├ localhost.localdomain
   ├ pc28
   ├ pc27
   └ localhost.localdomain
└ WAN
└ SNMP

	Location	IP address or	Alias	Model	Status ▼	Load	Link	Serial #
1	LAN->santak-9d459...	172.18.139.108	--	LINE-INT	UPS Output Off	0%	N/A	--
2	LAN->santak-64mr...	172.18.139.109	--	LINE-INT	UPS Output Off, St...	0%	N/A	164651600132
3	LAN->pc28	172.18.139.85	--	ON-LINE	Communication Lost	0%	N/A	1234567890
4	LAN->localhost.loca...	172.18.139.96	--	LINE-INT	Communication Lost	0%	N/A	000000000
5	LAN->pc28	fe80:0:0:0:ea3...	--	ON-LINE	Communication Lost	0%	N/A	1234567890
6	LAN->localhost.loca...	fe80:0:0:0:21a...	--	LINE-INT	Communication Lost	0%	N/A	000000000
7	LAN->pc27	172.18.139.100	--	ON-LINE	Battery connection ...	0%	N/A	012345678901..
8	LAN->pc27	fe80:0:0:0:ae1...	--	ON-LINE	Battery connection ...	0%	N/A	012345678901..
9	LAN->LIACNWHP75...	172.18.139.110	--	LINE-INT	Normal	16%	N/A	G133E28001

UNIT

9

4. If all the computers are communicated within the "same section of network", the software will detect all the PC which is installed the controlUNIT and show them in the left window of controlUNIT as above photo.

Notes: "Same section of network" means the three front numbers of its IP address is the same just like 192.168.1.XXX.

5. If the IP address is out of the same section of the Agent, you have to key-in the IP manually for doing the remote monitor/control via "Monitor"->"Monitor Remote Device"

6. There are two major parts of the sheet of "Shutdown Parameter" in the controlUNIT as below.

Shutdown Settings

Shutdown Options

USB ▼   LINE-INT_164651600132 ▼

☑ Allow battery to discharge for   10

☑ Begin Shutdown Immediately when Battery is Low

☑ Begin Shutdown when UPS Battery is at   40 ▼   % Capacity or lower

☑ Shut down when remaining battery time is below   2   min

☑ System   ◉ Shut down   ○ Hibernate   ☑ Multi-UPS input

☑ Shut down UPS

Time needed for system shutdown   2   min

Powered by   Load Segment1 ▼

☐ Accept Remote Shutdown signal from other Agent   [Add]

    0   min shutdown system   [Remove]

☐ Run Command File before Shutdown   Browse..

Shutdown File Max Execution Time   1   min

Run Mode   ◉ Service   ○ Non-Service

> This part is used for the local Agent only.

> This part is used for the remote PC

Shutdown Remote Agents

Shutdown Conditions	Agent is shutdown
LINE-INT in USB is shutdown, LINE-INT_164651600132...	172.18.139.124

[Add]
[Modify]
[Remove]

Shutdown Alarm Parameters

Shutdown Alarm Interval   1   min

Scheduled Shutdown Countdown warning   10   min

[OK]   [Cancel]

7. There are three items will effect the UPS backup time of the local Agent as below.

   A. Battery Backup Time (AA minutes)
   B. Begin shutdown immediately while battery low/battery remaining time is below the setting value
   /battery capacity is below the setting value
   C. System shutdown need time (CC minutes)

   7-1. In normal status, when the backup time reaches the value of AA minutes, the controlUNIT would send the

command to shutdown the PC. After the CC minutes, the UPS would also shutdown automatically. It means the UPS will work in battery mode for AA+CC minutes.

7-2. If you enable the function of item B, once the UPS transfer to battery mode for XX minutes (XX<AA) and the UPS start to inform the low battery warning. Then the controlUNIT would send the command to shutdown the PC. After CC minutes, the UPS would also shutdown automatically. It means the UPS will transfer to battery mode for XX+CC minutes.

7-3. If you disable the function of item B, once the UPS transfer to battery mode for XX minutes (XX<AA) and the UPS start to inform the low battery warning. The UPS would still keep working till AA minutes. If the UPS could not support the load till AA minutes, the UPS and the load (PC) would shutdown directly when the battery is empty. If the UPS could support the load till AA minutes, when the backup time reaches the value of AA minutes, the controlUNIT would send the command to shutdown the PC. After the CC minutes, the UPS would also shutdown automatically. It means the UPS will transfer to battery mode for AA+CC minutes.

8. There are also two main functions on the operation of the "Shutdown Remote Agent" as below.
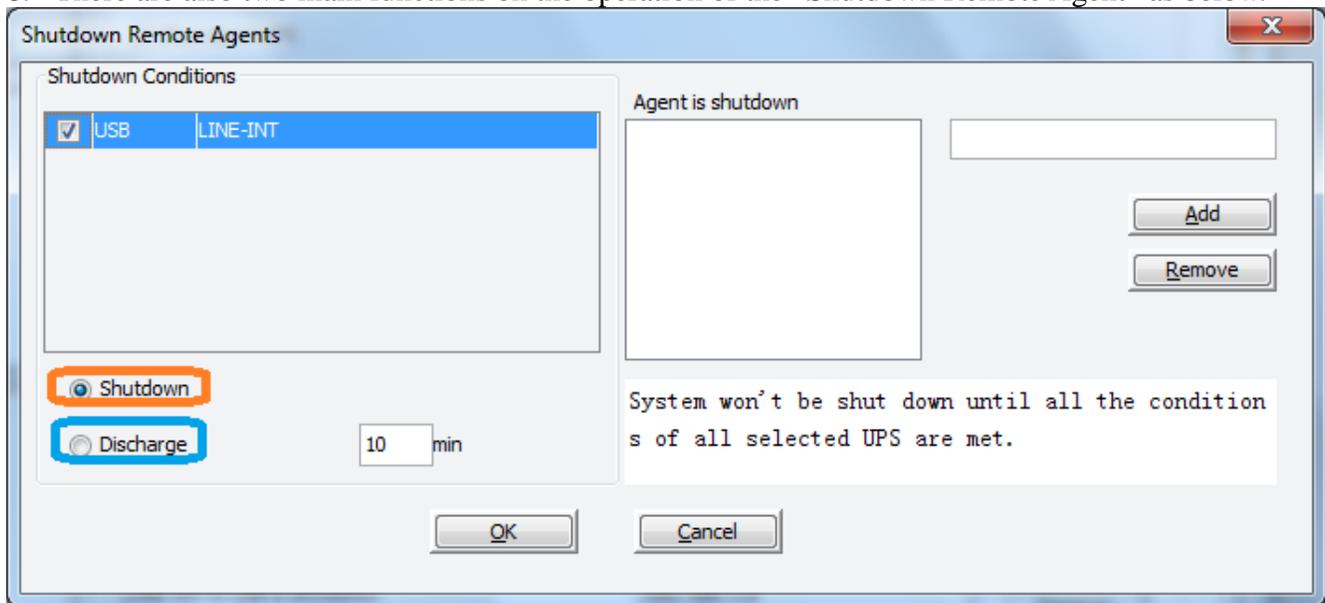
The item of "Shutdown" means that when the UPS of the Agent is going to shutdown, the controlUNIT will send out the shutdown command to the remote PC of the IP that you added in the below space.

The item of "Discharge" means that when the UPS of the Agent transfer to battery for XX minutes, the controlUNIT will send out the shutdown command to the remote PC of the IP that you added in the below space.
Hence, you only can change the time setting when you select this item.

If there are more than one UPS in the shutdown conditions list, you can set different shutdown condition of each UPS according your actual status.
For example, if there are two UPS (UPS A and UPS B) in the shutdown conditions list, UPS A and UPS B supply power to the remote agent at the same time. Once there is no power for the remote agent, the remote agent will be shut down safely. You should set shutdown condition of UPS A and UPS B, the remote agent won't be shut down until all the condition of UPS A and UPS B is met.

9. Below setting is on the Agent.
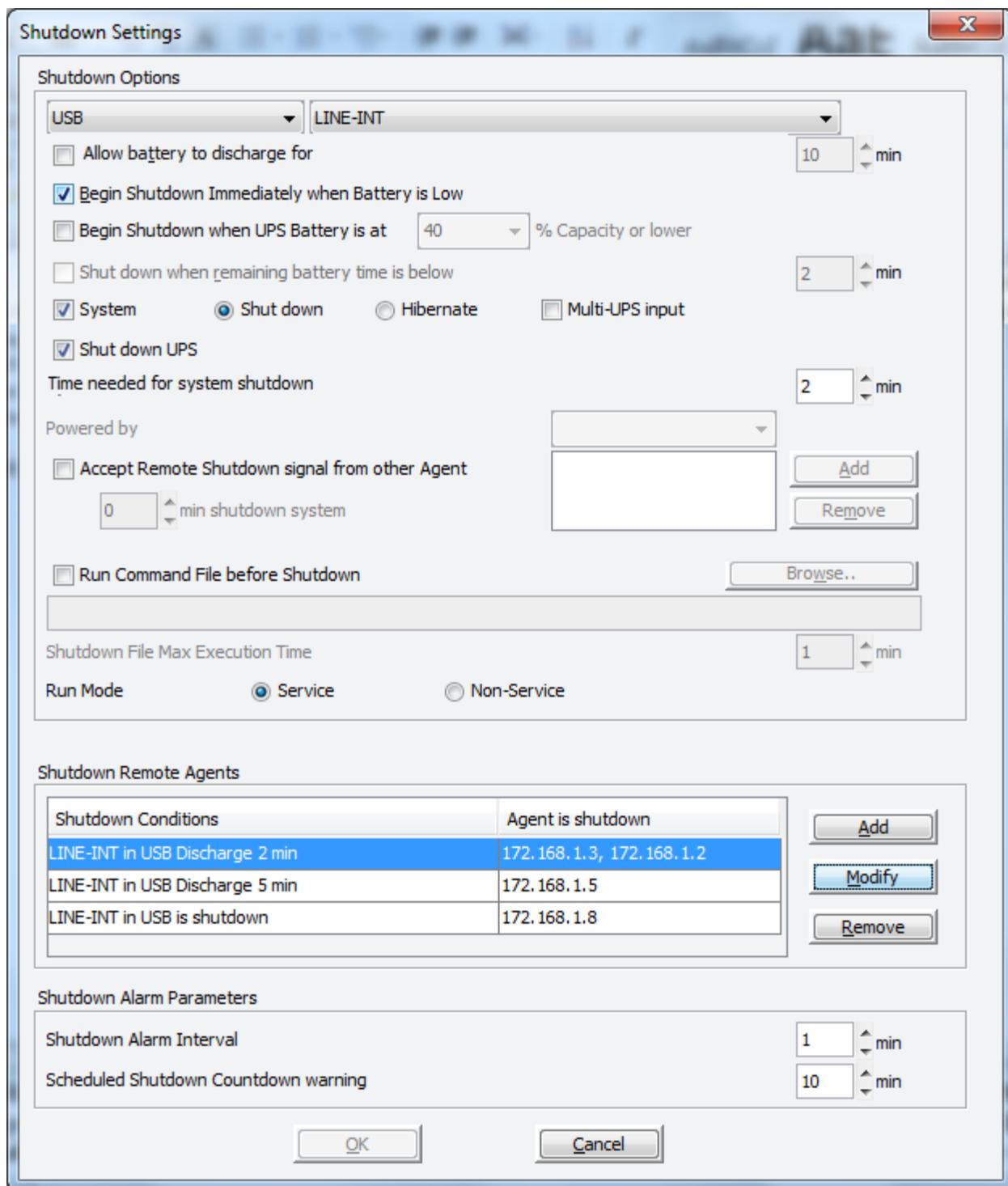
9-1. Refer to the left setting, it means that the backup time of the UPS in USB is 10 minutes.

9-2. When the UPS of the Agent transfer to battery mode for 2 minutes, the Agent will send out the shutdown command to 172.168.1.2 & 172.168.1.3.

9-3. When the UPS of the Agent transfer to battery mode for 5 minutes, the Agent will send out the shutdown command to 172.168.1.5

9-4 When the UPS of the Agent is going to shutdown (10 minutes on this sample), the Agent will send

out the shutdown command to 172.168.1.8

10. In Remote sides (PC-A, PC-B…), You have to enable the icon of " Remote Shutdown by Agent" at first. Click "Add" button in the "Shutdown Options", enter IP address of the Agent in the pop up dialog. Press the "OK" button to finish the setting. After this, When the local Agent received the specified agent's shutdown signal, system can be shutdown in delay time. **If you don't enter the IP address of the Agent, the remote PC would not implement the shutdown procedure after it receives the shutdown command from the Agent.**

11. The new option: Multi-UPS input
If there are more than one UPS supplying power to the local agent as below, you want to safely shut down or suspend the local agent before all UPS can't supply power to the local agent. You should select the "Multi-UPS input" option in the "shutdown settings" dialog of each UPS and set condition, refer to the following picture. The local agent won't be shut down or in suspend mode until all the condition of all UPS is met.
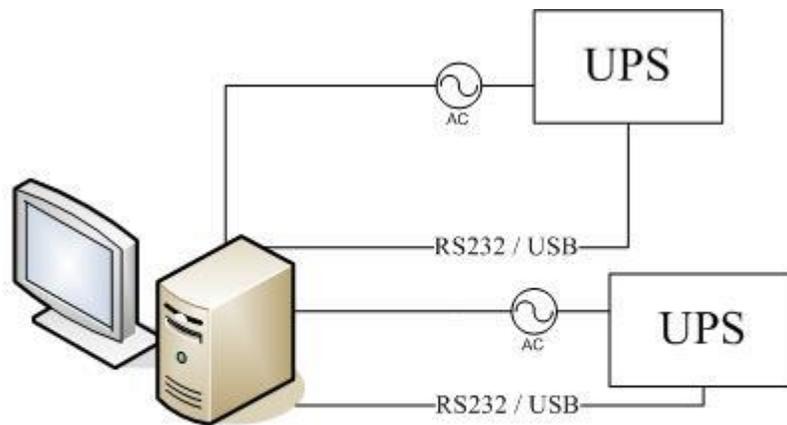
Server powered from two redundant
power supply

Shutdown Settings

Shutdown Options

| USB ▼ | LINE-INT ▼ |

☑ Allow battery to discharge for   10 ⬍ min

☑ Begin Shutdown Immediately when Battery is Low

☑ Begin Shutdown when UPS Battery is at   40 ▼   % Capacity or lower

☑ Shut down when remaining battery time is below   2 ⬍ min

☑ System   ◉ Shut down   ◯ Hibernate   ☑ Multi-UPS input

☑ Shut down UPS

Time needed for system shutdown   2 ⬍ min

Powered by   ▼

☐ Accept Remote Shutdown signal from other Agent   [Add]

    0 ⬍ min shutdown system   [Remove]

☐ Run Command File before Shutdown   [Browse..]

Shutdown File Max Execution Time   1 ⬍ min

Run Mode   ◉ Service   ◯ Non-Service

Shutdown Remote Agents

Shutdown Conditions	Agent is shutdown

[Add]
[Modify]
[Remove]

Shutdown Alarm Parameters

Shutdown Alarm Interval   1 ⬍ min

Scheduled Shutdown Countdown warning   10 ⬍ min

[OK]   [Cancel]