

Application Note - dhcp.lux, nodhcp.lux

▲ DANGER

RISK OF FIRE, ELECTRIC SHOCK, EXPLOSION, AND ARC FLASH

- This Service Bulletin is in addition to, and incorporates by reference, the relevant product manuals for each product in the Conext ComBox. Before reviewing this Application Note you must read the relevant product manuals.
- Unless specified, information on safety, specifications, installation, and operation is as shown in the primary documentation received with the product. Ensure you are familiar with that information before proceeding.

Failure to follow these instructions will result in death or serious injury.

Purpose

The ComBox uses a server-assigned Dynamic Host Configuration Protocol (DHCP) IP address by default. It is intended to be used with a customer supplied external TCP/IP router to supply the IP address to the ComBox.

In some instances, customers without a router may prefer to have a fixed IP address which is statically assigned by the ComBox itself. In these instances, the dhcp.lux and nodhcp.lux scripts allow the user to select between static IP assignment (nodhcp.lux) and server assigned (DHCP) IP address (dhcp.lux).

Scope

This Application Note includes information regarding the use of hardware and software in the Conext ComBox and Modbus Converter families.

Audience

This Application Note is intended for use by qualified personnel planning to design, install, commission, operate, maintain, or service a system involving a Conext ComBox.

Qualified personnel have training, knowledge, and experience in:

- Applying all applicable installation codes.
- Analyzing and reducing the hazards involved in performing electrical work.
- Selecting and using Personal Protective Equipment (PPE).

Safety Conventions Used

The following conventions may be used in this Application Note.

DANGER

DANGER indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

Applications

- dhcp.lux
- nodhcp.lux

Applicability

ComBox Application Firmware Ver01.03BN0450 and later.

Usage

To enable static IP address assignment:

1. Download the nodhcp.lux script from: <http://www.schneider-electric.com/products/ww/en/7000-solar-off-grid-and-back-up/7030-monitoring/62089-conext-combox/>
2. Execute the nodhcp.lux script:
 - a) Copy the nodhcp.lux script to the root directory of a USB memory stick.
 - b) Ensure there are no other .lux scripts on the USB memory stick. Be sure that extensions are visible in Windows to confirm this.
 - c) Insert the USB memory stick into the ComBox.
 - d) Wait for the **Memory** indicator light (LED) on the ComBox to flash 5 times indicating that script execution is successful.
 - e) Remove the USB memory stick from the ComBox.
3. Review the settings log file:
 - a) Insert the USB memory stick into your PC and confirm that the settings.log file has been created.
 - b) Review the content of the settings.log file. It is a simple time-stamped text file so it can be easily opened/reviewed using any text editor or word processing tool.
 - c) Confirm that the nodhcp.lux script executed successfully. It should have created a line which is similar to the one below:

```
- ComBox-1004-0002 : Thu Oct 31 16:08:13 2013,DHCP
  Disabled, static IP set to 192.168.2.16
```
 - d) Safely eject the USB memory stick from the PC.

To enable dynamic IP address assignment:

1. Download the dhcp.lux script from: <http://www.schneider-electric.com/products/ww/en/7000-solar-off-grid-and-back-up/7030-monitoring/62089-conext-combox/>
2. Execute the dhcp.lux script:
 - a) Copy the dhcp.lux script to the root directory of a USB memory stick.
 - b) Ensure there are no other .lux scripts on the USB memory stick.
 - c) Insert the USB memory stick into the ComBox.
 - d) Wait for the MEMORY LED on the ComBox to flash 5 times indicating that script execution is successful.

- e) Remove the USB memory stick from the ComBox.
3. Review the settings log file:
 - a) Insert the USB memory stick into your PC and confirm that the settings.log file has been created.
 - b) Review the content of the settings.log file. It is a simple text file so it can be easily opened/reviewed using any text editor or word processing tool.
 - c) Confirm that the dhcp.lux script executed successfully. It should have created a line which is similar to the one below:


```
ComBox-1004-0002 : Thu Oct 31 16:08:10 2013,DHCP  
Enabled
```
 - d) Safely eject the USB memory stick from the PC.
4. Power cycle the ComBox for the new settings to take effect.

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