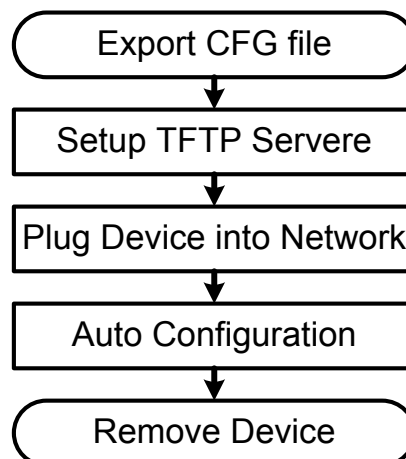# Auto-Configuration of the MiiNePort Series

Moxa Technical Support Team
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This document provides instructions for simultaneous multiple-unit configurations of MiiNePort Series embedded device servers through AutoCFG technology (a NetEZ feature), significantly reducing the time required to configure default device settings, directly on the production line.

AutoCFG Technology

AutoCFG provides a solution for MiiNePort Series to import a configuration file automatically. User can set up a TFTP server and put an exported configuration file on the server, all the MiiNePort in the same network will auto-download and import the configuration.

To implement AutoCFG, please follow these procedures:

```
┌─────────────────────────┐
│    Export CFG file      │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│   Setup TFTP Servere     │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│  Plug Device into Network │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│    Auto Configuration    │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│     Remove Device       │
└─────────────────────────┘
```

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About Moxa

Moxa manufactures one of the world's leading brands of device networking solutions. Products include serial boards, USB-to-serial hubs, media converters, device servers, embedded computers, Ethernet I/O servers, terminal servers, Modbus gateways, industrial switches, and Ethernet-to-fiber converters. Our products are key components of many networking applications, including industrial automation, manufacturing, POS, and medical treatment facilities.

How to Contact Moxa

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1. Export a configuration file from a MiiNePort
2. Set up a TFTP server
3. Power ON the MiiNePort(s) on the same network
4. The MiiNePort(s) will auto-load the configuration
5. Remove the MiiNePort(s)

These 5 steps are explained in detail below:

1. Export a configuration file from a MiiNePort.
   The user should take one MiiNePort and do some modification as the default settings for others, for example to have a specified IP address or serial parameters.

   1.1. We recommend to Disable the AutoCFG function for this configuration file because there is no need for a MiiNePort to load the configuration file twice.
   Maintenance -> Configuration Tool -> Auto Configuration, disable **"AutoCFG"**
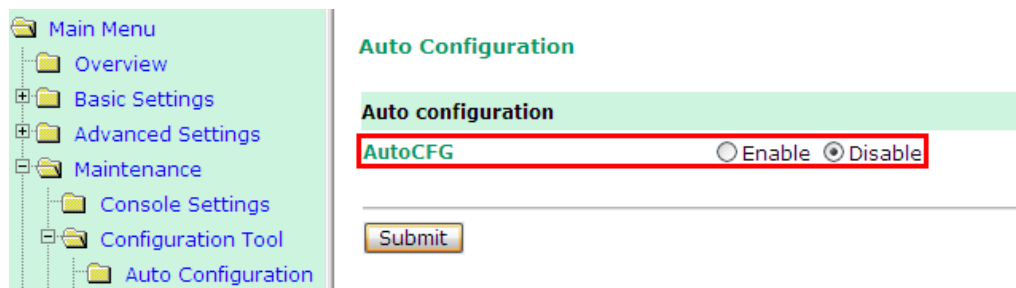
   1.2. When finish configuring, export the configuration file.
   Maintenance -> Configuration Tool -> Configuration Export, click **Download** to export the configuration, the default name should be "**MiiNePortE1.txt**" (ModelName.txt, please do not change it.)
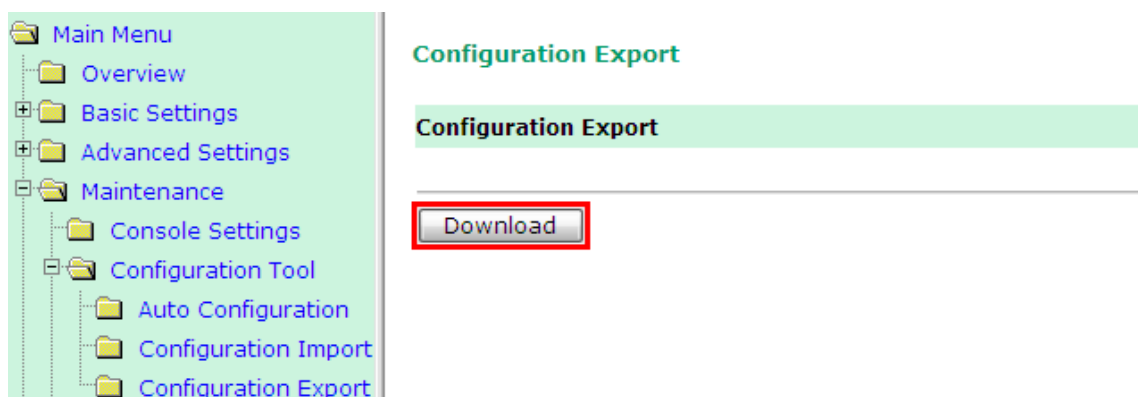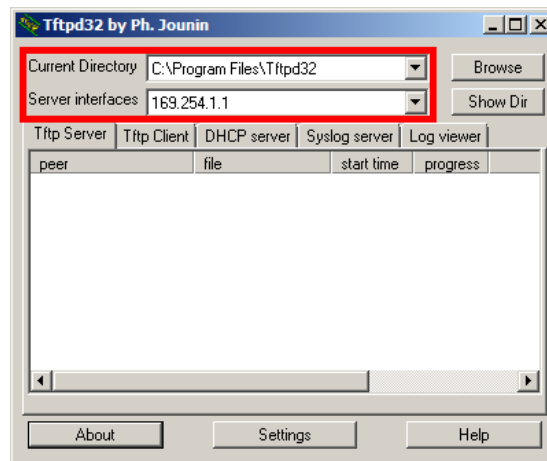
2. Setup a TFTP Server.
   There are many free TFTP Server software on Internet, we use TFTPD32 as an example.

   2.1. Change the IP address of the PC which runs TFTP Server to
         169.254.a.b / 255.255.0.0 (a & b = 1 - 254).
      2.1.1. Copy the configuration file "**MiiNePortE1.txt**" to the home directory of the
             TFTP server, in this case it is **C:\Program Files\Tftpd32**.
   2.2. Execute the TFTP Server

3. Power ON the MiiNePort(s) on the same network.
4. The MiiNePort(s) will auto-load the configuration file from the TFTP server. When it
   finishes, LEDs will indicate the status:

Model	LED Name	Color
MiiNePort E1 Series	Fault / In-Use	Blinking, alternating with Green and Amber
MiiNePort E2 Series	Ready	Green, Blinking every 1 sec.
MiiNePort E3 Series	Ready	Green, Blinking every 1 sec.

5. Remove the MiiNePort(s)

Why Moxa

- Smallest embedded device server on the market
- Extremely low power consumption
- NetEZ technology makes integration incredibly easy
- Versatile choice of operation modes: Real COM, RFC2217, TCP, and UDP

Related Products

MiiNePort E1/E2/E3 Series