

Customized Webpage for the MiiNePort E2 Series

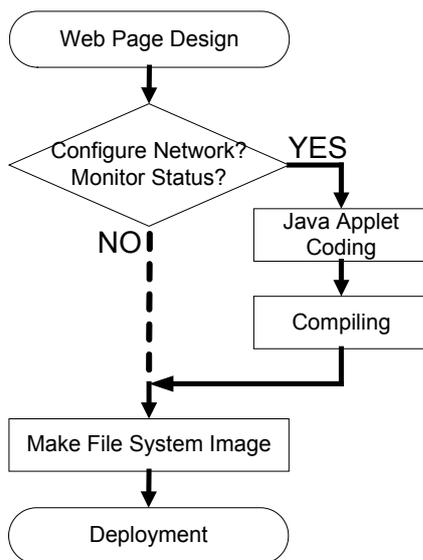
Moxa Technical Support Team
support@moxa.com

This document introduces how to design a simple webpage and upload it to MiiNePort E2. The new NetEZ technology suite available with the MiiNePort E2 Series includes a feature called EZPage. It allows the user to upload a customized webpage to the MiiNePort E2.

Webpage Development

EZPage provides a customized Web Console solution for the serial device. Users can design their particular functions for features such as configuration, communication, and monitoring applications in the web page.

To implement EZPage, please follow the procedures below:



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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

Tel: +886-2-8919-1230 Web: www.moxa.com
Fax: +886-2-8919-1231 Email: info@moxa.com

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1. Design a customized web page.
2. Check if you have these requirements:
 - 2.1 Configure the network settings of the MiiNePort E2?
 - 2.2 Monitor the status of the serial device connected to the MiiNePort E2?

If you have any of the above two requests, you may need to add the Java Applet to the web page.

3. When finish coding, make the file system image of the customized web page.
4. Deploy the image to the MiiNePort E2.

The 4 processes are explained below:

1. Design a customized web page.

The webpage can be custom designed, including text and photos (logo), to be displayed to the end user. For example:



2. Check if you have these requirements:
 - 2.1 Configure the network settings of MiiNePort E2?
 - 2.2 Monitor the status of the serial device connected to MiiNePort E2?

If you have any of above two requests, you may need to add Java Applet to the web page.

To add the Java Applet, there are several procedures:

- 1) Setup Java Platform:

Download and install the JDK 1.6 (or later)

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>
- 2) Configure the environment parameters:

2.1) Windows 2000/XP:

Path = (path to Java folder)

(ex. C:\Program Files\Java\jdk1.6.0_21\bin)

2.2) Linux platform:

If the shell is Bash,

export PATH = (path to Java folder):\$PATH

3) Base on the requirement to do the coding work, remember to import NECI class which is provided by MOXA for MiiNePort E2:

```
import com.moxa.library.neci.*;
```

...

4) Execute compile batch command to compile Java source code (EZPage.java) to *.class by following command:

compile

```
C:\EZPage\Example2\jar>compile
C:\EZPage\Example2\jar>Path=C:\Program Files\Java\jdk1.6.0_22\bin;
C:\EZPage\Example2\jar>rem COMPILER_UER compiler version of java
=====
C:\EZPage\Example2\jar>set COMPILER_UER=1.6
C:\EZPage\Example2\jar>javac -cp neci.jar -target 1.6 *.java
C:\EZPage\Example2\jar>
```

5) Execute pack batch command to pack all the class files into one EZPage.jar file by following command:

pack

```
C:\EZPage\Example2\jar>pack
C:\EZPage\Example2\jar>jar cfm EZPage.jar META-INF\manifest.mf *.class *.gif *.jpg UERSION.txt
C:\EZPage\Example2\jar>
```

3. When finish coding, make the file system image of the customized web page.

EZPageTool /makefs C:\EZPage\Example2\htm\ EZPage

```
C:\EZPage>EZPageTool /makefs C:\EZPage\Example2\htm EZPage
C:\EZPage>
MOXA - EZPageTool Version 1.0
Packing... EZPage.jar
Packing... index.htm
Packing... neci.jar
pack file success!
```

4. Deploy the image to MiiNePort E2.
4.1 Deploy it by EZPageTool command

EZPageTool /updatefs EZPage 192.168.127.254

```
C:\EZPage>EZPageTool /updatefs EZPage 192.168.127.254
C:\EZPage>
MOXA - EZPageTool Version 1.0
upload web image file success!
```

- 4.2 Deploy it by Search Utility or Web Console

EZPageTool /combine EZPage MiiNePort E2 V1.0 Build.rom E2.rom

```
C:\EZPage>EZPageTool.exe /combine EZPage MiiNePort_E2_U1.0_Build.rom E2.rom
C:\EZPage>
MOXA - EZPageTool Version 1.0
Combine web image into firmware success!
```

Then you can upload it (E2.rom) via Search Utility or Web Console as a normal firmware.