Moxa Device Manager 2.1 User's Guide

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Moxa Device Manager 2.1 User Guide

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1 Introduction

Moxa Device Manager (referred to in this manual as MDM) is an easy-to-use remote management tool for managing Moxa's ready-to-run embedded computers over the Internet. Moxa's embedded computers make excellent front-end computers for onsite data acquisition and industrial control applications, but they are often located at a remote site. MDM was designed to make it easy for system administrators to manage their remote embedded computers.

This chapter covers the following topics:

- **Overview**
- **Differences between MDM 2.1 and MDM 1.1**

Overview

Moxa Device Manager (MDM for short) is an easy-to-use remote management tool for managing Moxa's ready-to-run embedded computers over the Internet. Moxa's embedded computers make excellent front-end computers at remote sites for on-site data collection and industrial control applications. MDM is designed to make it easy for system administrators to manage their remote embedded computers. One of the key benefits of MDM is that management tasks, such as configuring the network, managing and/or transmitting text and binary files, and monitoring and controlling processes, can be handled easily using a Windows-based user interface. In addition, MDM can be used to manage different models of embedded computer, and embedded computers that use different operating systems, all from one centrally located computer. As long as the individual embedded computers are preinstalled with an MDM agent, they can be recognized and managed by the unified MDM tool from your PC. These features help ensure that MDM gives system integrators an efficient tool for handling all remote devices from one computer.

Differences between MDM 2.1 and MDM 1.1

- 1. MDM 2.1 can operate over the Internet, whereas MDM 1.1 can only operate over a LAN (Local Area Network).
- 2. MDM 2.1 supports all models and all operating systems (Linux, CE, XPe) of Moxa's embedded computers whereas MDM 1.1 only supports selected models and operating systems.
- 3. MDM 2.1 provides a more friendly graphical user interface that allows users to "click and operate" to manage remote devices.
- 4. MDM 2.1 provides "mobile configuration" that allows users to manage and monitor Moxa's wireless embedded computers. Currently, the W406 Series of wireless computers is supported.

Note: In this manual, Moxa's embedded computers are referred to as "computer," "embedded computer," or simply as "device."

2 Installation

This chapter covers the following topics:

- □ Installation
- □ Installing MDM Agent
- **Uninstalling MDM Agent**
- □ Installing MDM Gateway
- **Uninstalling MDM Gateway**
- □ Installing MDM Tool
- **Uninstalling MDM Tool**

Installation

To use MDM to remotely monitor and manage Moxa's embedded computers, you need to install three software programs in three separate locations:

- a. **MDM Agent:** This program must be installed on embedded computers at remote sites so that they can be easily monitored and managed remotely.
- b. **MDM Gateway:** This program must be installed on the computer(s) used as the MDM Gateway. It serves as a portal between two programs, allowing them to share information by communicating between protocols on the same computer or between computers. MDM Gateway can be used to connect to many embedded computers at remote sites, so that a centralized management architecture can be established.
- c. **MDM Tool:** This program is installed on the computer, usually a PC or a laptop, in the control center. It allows users to connect to the MDM Gateway to monitor and manage the remote embedded computers.



Moxa Embedded Computers

Installing MDM Agent

MDM Agent should be installed on remote embedded computers that you would like to monitor and manage. Separate instructions are given below for different operating systems.

Installing MDM Agent on Linux Models

- 1. Download the MDM Agent for the model of embedded computer you are using from Moxa's website.
- 2. Use FTP to upload the files to the embedded computer's /tmp directory.
- 3. Log in to the remote embedded computer as root.
- Next, type the following commands: cd /home tar xvzf /tmp/MDM2_Agent-UC-74XX_DA-660-LX.tar.gz

For UC-7101/7110/7112 and EM1220/1240 models, type the following commands:

gunzip /tmp/MDM2_Agent-UC-7112-LX.tar.gz tar xvf /tmp/MDM2_Agent-UC-7112-LX.tar

Note: The file name of the MDM Agent installation file includes the product model name.

5. View the file list for directory /home/mdm. The files you should see are described below:

| File Name | Description |
|-----------------|----------------------------|
| MDM2-uc74xx.exe | MDM Agent executable |
| mdm.sh | MDM Agent watch dog script |
| mdm2 | MDM Agent |
| mdm_start.sh | MDM Agent start script |
| mdm_stop.sh | MDM Agent stop script |

Note: The file name of the executable file is different for different models.

- 6. How to start MDM Agent:
 - Type the following command to start MDM Agent manually: /home/mdm/mdm_start.sh
 - You can also set up your embedded computer to launch MDM Agent automatically with the MDM Tool's AutoLaunch function. Alternatively, you can add the command /home/mdm/mdm_start.sh manually to the file rc.local.
- 7. How to stop MDM Agent:
 - Type the following command to stop MDM Agent manually: /home/mdm/mdm_stop.sh
 - > You may also shut down or power off the computer to stop MDM Agent.

Installing MDM Agent on Windows XPE Models

- 1. Download the MDM Agent for the model of embedded computer you are using from Moxa's website.
- 2. Unzip the archive first, and then use FTP to upload the file to the embedded computer.
- 3. Log in to the embedded computer as Administrator.
- 4. Unzip MDM2_Agent-XPe.zip to the folder of your choice (e.g., C:\)
 - > Open a DOS window
 - > Type: cd C:\MDMAgent
 - > Execute Autolaunch.exe install to install AutoLaunch service.
 - Start AutoLaunch, which is in the following location:
 Start menu → Control Panel → Administrative Tools → Services → Auto Launch → Start Service
- 5. View the file list in folder C:\MDMAgent. The files you should see are described below:

| File | Description |
|----------------|----------------------|
| AutoLaunch.exe | Auto-launch service |
| MDMAgent.exe | MDM Agent executable |

- 6. How to start MDM Agent:
 - > Double click **MDMAgent.exe** to start MDM Agent manually.
 - You can also set up your embedded computer to launch MDM Agent automatically with the MDM Tool's AutoLaunch function.
- 7. How to stop MDM Agent:
 - > Use Task Manager to stop MDMAgent.exe manually.
 - > You may also shut down or power off the computer to stop MDM Agent.

Installing MDM Agent on Windows CE Models

- 1. Download the MDM Agent for the model of embedded computer you are using from Moxa's website.
- 2. Unzip the archive first, and then use FTP to upload file to the embedded computer.
- 3. Log in to the embedded computer as Administrator.
- 4. Unzip MDM2_Agent-IA26X-CE.zip to the \NORFlash directory.
- 5. View the file list in the \NORFlash directory and verify that the file **MDMAgent.exe** is present.
- 6. How to start MDM Agent:
 - > Double click **MDMAgent.exe** to start MDM Agent manually.
 - You can also set up your embedded computer to launch MDM Agent automatically with the MDM Tool's AutoLaunch function.
- 7. How to stop MDM Agent:
 - Use Web Manager to stop MDMAgent.exe manually.
 - > You may also shut down or power off the computer to stop MDM Agent.

Uninstalling MDM Agent

Uninstalling MDM Agent on Linux Models

- 1. Log in to the remote embedded computer as root.
- 2. Stop MDM Agent.
- 3. Issue the following command: **rm -r /home/mdm.**

Uninstalling MDM Agent on Windows XPE Models

- 1. Stop MDMAgent.exe.
- Stop AutoLaunch.exe service by clicking:
 Start menu → Control Panel → Administrative Tools → Services → Auto Launch → stop
- 3. Remove MDM Agent from the folder C:\MDMAgent.

Uninstalling MDM Agent on Windows CE Models

- 1. Stop MDMAgent.exe.
- 2. Remove MDMAgent.exe.

Installing MDM Gateway

MDM Gateway should be installed on the computers that you will use as the MDM Gateway that the remote embedded computers connect to. Please note that the computer used as the MDM Gateway Server must be installed with the Windows XP operating system.

Follow these steps to install MDM Gateway.

- 1. Download the MDM Gateway from Moxa's website.
- 2. Use FTP to upload the files to the Gateway computer, or use a USB disk to copy the files to the Gateway computer.
- 3. Log in to the computer as Administrator.
- 4. Unzip MDM2_Gateway-XP.zip to the folder of your choice (e.g., C:\).
- 5. View the file list in folder C:\MDMGw.
- 6. How to start MDM Gateway: To start MDM Gateway, log in to the computer and run **MDMGw.exe**.
- 7. How to stop MDM Gateway:
 - > Use Task Manager to stop **MDMGw.exe** manually.
 - > You may also shut down or power off the computer to stop the MDM Gateway program.

Note: If you bring up MDM Gateway from a DOS window, you can press **Ctrl+Break** to stop MDM Gateway.

Uninstalling MDM Gateway

After stopping MDM Gateway, delete MDMGw.exe from the C:\MDMGw folder.

Installing MDM Tool

MDM Tool should be installed on the computers at the control center. Once installed, the computers at the local site can be used to connect the embedded computers at the remote site over the Internet. MDM Tool can be downloaded from Moxa's website.

The files will be packaged in zip format. Unzip the files and then run **setup.exe** or **MOXA Device Manager 2.1.msi** if your computer has been pre-installed with Microsoft Installer.

1. Double click setup.exe to start the installation procedure.



2. Click **Next** to continue.



3. Next, select **Browse** if you would like MDM to be installed in the different folder. Click **Next** to continue.

| 🙀 Moxa Device Manager | | |
|---|---|--------------------|
| Select Installation Folde | ۱۲ | |
| The installer will install Moxa Device Man To install in this folder, click "Next". To in Folder: | ager to the following folder. Istall to a different folder, enter it below o | or click "Browse". |
| C:\Program Files\M0XA\ | | B <u>r</u> owse |
| | | Disk Cost |
| Install Moxa Device Manager for yours | elf, or for anyone who uses this comput | er: |
| | | |
| C Just <u>m</u> e | | |
| | Cancel < Back | Next > |

4. Click **Next** to confirm the installation.

| 🙀 Moxa Device Manager | | | |
|--|------------------|----------------|----------------|
| Confirm Installation | | | |
| The installer is readu to install Mova Devic | e Manager on uo | ur computer | |
| | so manager on yo | a compator. | |
| LICK INEXT to start the installation. | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | Cancel | < <u>B</u> ack | <u>N</u> ext > |
| | 24 | 420 | |

5. Wait until the installation has finished.



6. Click **Close** to complete the installation procedure.

| 🥵 Moxa Device Manager | | | |
|---|-------------------|----------|--|
| Installation Complete | | | |
| Moxa Device Manager has been succes Click "Close" to exit. | sfully installed. | | |
| | | | |
| | Cancel | <u> </u> | |

Uninstalling MDM Tool

Follow these instructions to uninstall MDM Tool.

- 1. Select Add or Remove Programs from Start \rightarrow Settings \rightarrow Control Panel.
- 2. Select Moxa Device Manager from the program list, and then click Remove to continue.

| 🐱 Add or Re | move Programs | | | | |
|-----------------------------|---|-------------------------|---------------|------------|------|
| - | Currently installed programs: |] Show up <u>d</u> ates | Sort by: Name | 1 | ~ |
| Change or Remove | | 12000- | SIZE | 203.00110 | ~ |
| Programs | HP Scanjet G3010 7.0 | | Size | 15.78MB | 1 |
| 2 | HP Solution Center 7.0 | | Size | 3.09MB | |
| <u></u> | 🔮 HP Update | | Size | 3.76MB | |
| Add <u>N</u> ew Programs | 🕮 Microsoft .NET Framework 1.1 | | | | |
| | 🕞 Microsoft .NET Framework 1.1 Hotfix (KB928366) | | | | (53) |
| 6 | B Microsoft .NET Framework 2.0 | | Size | 88.37MB | |
| Add/Remove | 🚰 Moxa Device Manager | | Size | 20.03MB | |
| Windows Components | Click here for support information. | | Used | frequently | |
| | | | Last Used On | 6/24/2009 | |
| | To change this program or remove it from your computer, click Cha | ange or Remove. | Change | Remove | |
| Set Program Access and | B MSXML 4.0 SP2 (KB954430) | | Size | 2,67MB | |
| Defaults | 🥶 Nero 6 Ultra Edition | | Size | 39.26MB | |
| | NVIDIA Drivers | | | | |
| | 📸 OCR Software by I.R.I.S 7.0 | | Size | 3.09MB | |
| | 🙀 Realtek AC'97 Audio | | Size | 39.91MB | |
| | 弱 SiSRaidPackage | | Size | 2.71MB | - |
| | 😵 StreamAuthor | | Size | 65.81MB | |
| | 🗫 IIIindawa Dukum Daduana - Unudate Dadund Tarana († 2/22/2006 0 | <u> </u> | | | ~ |

3. Click Yes to start removing MDM Tool from your computer.



3 MDM Operation

This chapter describes how to use MDM Tool to monitor and manage Moxa's embedded computers at the remote sites over the Internet.

This chapter covers the following topics:

- □ Launching MDM Agent
- □ Launching MDM Tool
- **Connecting to MDM Gateway**
- □ Introduction to the MDM Tool Interface
- **D** Toolbar Functions
 - ➢ Uploading Files
 - > Upgrading the Firmware
 - File Manager
 - Viewing Upload/Download Status
 - Controlling the Process
 - Setting Up the Network
 - > Autolaunch
 - ➢ Setting Up the Time
 - Configuring the Wireless Embedded Computers
 - Rebooting the Computer
- **Disconnecting MDM Gateway**
- **How to Exit the MDM** Tool

Launching MDM Agent

Before using MDM Tool on your PC to manage embedded computers, you must run MDM Agent on the embedded computers that you want to manage.

To begin with, make sure that the MDM Gateway software has been launched. To do this, log on to your embedded computer over a Telnet client or a serial console client, and then run the MDM agent program by typing the following command at the prompt:

> MDMAgent.exe

Launching MDM Tool

There are two ways to launch MDM Tool.

> Double-click the MDM Tool icon on your desktop.



> Click MDM Tool from Start → All Programs → MOXA Device Manager.





Once launched, the MDM Tool interface will appear.

Connecting to MDM Gateway

1. Choose Gateway Manager from Tools.



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2. Type in the IP address, port number (the default is 54321), and the name of the Gateway Server. Click **Save** to continue.

| Gateway Mar | nager | | | |
|---------------|--------------|-----------|----------|--------------------|
| Manage the ga | iteways by e | editing t | he gatew | vay IPs and ports. |
| IP: | 1 . | -2 | | |
| Port: | 54321 | | | |
| Name: | | | | |
| Gateway: | | | | New |
| | | | | Save |
| | | | | Delete |
| | | | ОК | Cancel |

3. The Gateway information will be displayed as follows. Click **Connect** to continue.

| Gateway Mar | nager | |
|---------------|-------------------------------|----------------|
| Manage the ga | teways by editing the gateway | IPs and ports. |
| IP: | 192 . 168 . 27 . 149 | |
| Port: | 54321 | |
| Name: | Moxa | |
| Gateway: | Moxa | New |
| | | <u>S</u> ave |
| | | Delete |
| | | |
| | Connect OK | Cancel |

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4. If the information is correct, you will be able to connect to the Gateway Server and the main screen of the MDM Tool will appear. You can check the Gateway Server that has just been connected to in the left panel. You will also be able to see which devices are connected to this Gateway Server.

| lpload Firmware F | ie Manager Upload/Do | Process C Netw | work S Autolaur | ich Time Setup Mo | bile | | |
|--------------------------------|----------------------|----------------|-----------------|-----------------------|--------------|----------|--|
| Moxa (192.168.27.149) | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 192.168.27.15 | 192.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| • | 192.168.27.15 | IA262-CE | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | | | | | | | |

5. If you have left Gateway Server and would like to connect to the existing server again, right-click the name of the Gateway, and then select **Connect**.



6. Please note that only one Gateway Server is allowed to connect. If you would like to connect to another server, disconnect the first server and then connect the second one.

Introduction to the MDM Tool Interface

When you connect to a Gateway Server, the following screen will appear.

| 🚺 💒 Upload Firmware File I | 🚉 🎽 🖍 Aanager Upload/Do | Process C Net | 뉊 🔉 🔊 | ch Time Setup | Î. | |
|-------------------------------|----------------------------|---------------|---------------|-----------------------|--------------|----------|
| xa (192.168.27.149) | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname |
| 192.168.27.17 | 192.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха |
| - | 192 168 27 15 | 14282.CE | 1.1 | Windows CE 6.0 | EP0315 | IA262CE |

- 1. Menu Bar: Includes the Tools, View, and Help menus.
- 2. Toolbar: The icons shown, listed from left to right, are File Upload, Upgrade Firmware, File Manager, Upload/Download Viewer, Process Control, Network Setup, Autolaunch, and Time Setup. Note that if right-click a device, a list of function options will appear. Each function will be introduced in the following sections.
- 3. Gateway & Device Tree: In this area, you can view the Gateway Server and the currently active computers under this Gateway. Both gateway and IP address can be shown here. Double-click the Gateway icon, you can view the all device information on the right frame.
- 4. Device List: This area contains all of the information of the computers attached under the Gateway Service that you have connected to. They include device IP, model name, firmware version, OS version, CPU type, and hostname. Double-click device icon, you can view the single computer information on the right frame.
- 5. **Single Computer Information:** You may also view information for a single computer by clicking the computer in the device list. Basic information related to the computer, including product picture (if available), model name, firmware version, agent version, CPU type, OS version, and hostname, will be displayed. Meanwhile, the storage information of the computer will also be viewed at the right-bottom corner of the window.

| MOXA Device Manager 2.1 - Manage Moxa B | mbedded Computers Boundlessly | | |
|---|--------------------------------|------------------------------|----------------|
| I cols yew gep | Process C Network S Autolaunch | Time Setup Mobile | |
| 192:168.27.15 | | | |
| | | | |
| | | | |
| | | | |
| | Model Name DA-660-LX | CPU Type Intel-IXP42 | 2 |
| | Firmware Version 1.1 | OS Version MontaVista | i 2.4.18_mv/30 |
| | Agent version 2.0.0 | Hustname Moxa | |
| | | ↑ 5 | |
| | | 1 | |
| Ready | | Storage: 10572 KB / 26624 KB | 40% |

Menu Bar Introduction

This section briefly introduces the options under the Tools, View, and Help menus.

Tools

Gateway Manager: Enables users to manage the gateway information and/or connect to the MDM Gateway Server.

| <u>Gateway Manager</u> Properties | 📆 눱 File Manager Upload/Do | Process C Netw | work S Autolaun | ch Time Setup | Mobile | | |
|--------------------------------------|-------------------------------|----------------|-----------------|---------------------|------------------|----------|--|
| Exit | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 192.168.27.15 | 192.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_m | nvi Intel-IXP422 | Моха | |
| | 192.168.27.15 | IA262-CE | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |

Properties: Enables users to configure the local file directories for file upload and firmware upgrade and the remote local file directory for the upload destination. We strongly suggest that you configure these settings before you upload files and upgrade firmware. Click **Browse** to search the directories for file uploads or firmware upgrades. Click **OK** to finish.

| Properties | |
|---|-------------------------------|
| Setup file upload and | firmware upgrade directories. |
| Load file(c) from | Provise |
| Load file(s) from | browse |
| Upload file(s) to | 7 |
| Firmware Upgrade Load firmware from | Browse |
| | OK Cancel |

Exit: this option enables users to quit MDM Tool.

View

Allows you to decide if the toolbar will be displayed. Check the **Main** option to show the toolbar; uncheck the **Main** option to remove the toolbar.

| MOXA Device Manager 2.1 | 1 - Manage Moxa Em | bedded Comput | ers Boundlessly | | | | |
|--|--------------------|---------------|-----------------|-----------------------|--------------|----------|--|
| Iools View Help Main File Upload Firmware File I | Manager Upload/Do | Process C Net | vork 5 Autolaur | nch Time Setup Ma | bile | | |
| 🖃 🤭 Moxa (192.168.27.149) | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 | 192.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| | 192.168.27.15 | IA262-CE | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | | | | | | | |

Help

Allows users to connect to the Online Guide or view the About MDM Tool information.

| 🏩 MOXA Device Ma | MOXA Device Manager 2.1 - Manage Moxa Embedded Computers Boundlessly | | | | | | | |
|--|--|---------------|---------------|-----------------|-----------------------|--------------|----------|--|
| <u>I</u> ools <u>V</u> iew <u>H</u> elp Tile Upload F | Online Guide | pol | Process C Net | vork 5 Autolaur | rch Time Setup Ma | bile | | |
| 😑 🤭 Moxa (192.168.2 | 27.149) | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27. | 17 15 | 192.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| • | | 192.168.27.15 | IA262-CE | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | | | | | | | | |

Online Guide: Use the Online Guide to view detailed information about using MDM Tool. You may either expand the table of contents in the left pain, or click the Search tab to search for information about a particular term or topic.



About MDMTool: The MDM Tool version number will appear in the MDM window.



Toolbar Functions

The icons that appear on the toolbar, listed from left to right, are File Upload, Upgrade Firmware, File Manager, Upload/Download Viewer, Process Control, Network Setup, Autolaunch, Time Setup and Mobile. See the following sections for detailed descriptions.

Uploading Files

If you would like to upload files to one computer, check the computer in the device information area, right-click the computer and then choose **File Upload**, or click the **File Upload** icon in the toolbar to continue.

| 🌆 MOXA Device Manager 2. | 1 - Manage Moxa E | mbedded Comput | ers Boundlessly | | | | |
|---|---|---|-----------------|---------------------|-----------------|----------|--|
| <u>I</u> ools <u>V</u> iew <u>H</u> elp | | | | | | | |
| tile Upload Firmware File | 📆 🟠 Manager Upload/Do | Process C Net | work S Autolaur | nch Time Setup | Mobile | | |
| Moxa (192.168.27.149) 192.168.27.17 192.168.27.15 | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| | 100 460 07 47 | DA SEO LX | 1.1 | MontaVista 2.4.18_m | vl Intel-IXP422 | Моха | |
| | File Up | oad | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | Elle Ma Constantion Elle Ma Constantion Process Network Solution Constantion Elle Ma Process Network Solution Constantion Elle Ma Process Network Solution Constantion Elle Ma Network Solution Constantion Elle Ma Network Solution Constantion Elle Ma Network Solution Constantion Cons | re Upgrade hager s Control k Setup unch stup | | | | | |

If you would like to upload files to two or more computers, check the computers in the device information area, and then click the **File Upload** icon in the toolbar to upload the files.

| 🎵 MOXA Device Manager 2.1 | - Manage Moxa Em | bedded Compute | ers Boundlessly | | | | |
|---------------------------------|-------------------|----------------|-----------------|-----------------------|------------------|----------|--|
| <u>T</u> ools ⊻iew <u>H</u> elp | | | | | | | |
| File Upload Firmware File N | Aanager Upload/Do | Process C Net | work S Autolaur | nch Time Setup Ma | i bile | | |
| E File Upload 68.27.149) | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 | 192.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| | 192.168.27.15 | IA262-CE | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | | | | | | | |

An "Open" file window will pop up. From your local computer, select the files you would like to upload. Use the **Remote Directory** text box to indicate where the files will be uploaded to. Be sure to type in the complete path. Click **Open** to continue.

| Open | | | | | | ? 🔀 |
|--|--|----------|---|----|---|-------------|
| Look jn: | 📋 My Documents | | ~ | 00 | P | |
| My Recent Documents Desktop My Documents My Computer | My Albums My Music My Pictures My Scans MDM_tool.txt TEST.txt | | | | | |
| S | File <u>n</u> ame: | TEST.txt | | | ~ | <u>Open</u> |
| My Network | Files of <u>type</u> : | | | | ~ | Cancel |
| | Remote Directory: | \home | | | | |

The "File Upload" window will pop up.

| | Remote Dir | Path CilDocuments and | Add |
|-------------------------|-------------------|--------------------------|-------------------------|
| vice(s) Lis | | | |
| 5elected d 192.168.2 | evice(s): 7.17 | Non-select 192.168.2 | ted device(s): 27.15 |

If you would like to upload more files, click **Add** to add more files. If you would like to delete files from the list, select the files in the left column and then click **Delete**. In the Device List, you may select other computers that you would like to upload files to. Click the computer's IP address from the **Non-selected device(s)** list and the click the left arrow to move the items to the **Selected device(s)** List. Click **Upload** to start uploading.

| File Upload | |
|-------------|-----------------|
| Uploa | ad the file(s)? |
| ОК | Cancel |

View the status of your file uploads with the "Upload/Download Viewer" function. See the **Viewing Upload/Download Status** section for details.

Upgrading the Firmware

If you would like to upgrade the firmware on one computer, first click the check box next to the Device IP, and then right-click the computer and select **Firmware Upgrade**. You may also use the **Firmware Upgrade** icon in the toolbar.

| Tile Upload Firmware File | Aanager Upload/Do | Process C Net | work S Autolaun | ch Time Setup Ma | bile | | |
|---------------------------|---|-------------------------------|-----------------|-----------------------|--------------|----------|--|
| Moxa (192.168.27.149) | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 | 192.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| - - | 📃 한 File Uploa | d | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | Ele Mana Process of Network Autolaum Methods Ime Seb | ger Control Setup up | | | | | |

If you would like to upgrade the firmware to two or more computers, make sure that the computers have been checked and then click the **Firmware Upgrade** icon to continue.

| 🏗 MOXA Device Manage | r 2.1 - Manage Moxa En | nbedded Comput | ers Boundlessly | | | | |
|---------------------------------|------------------------|----------------|-----------------|-----------------------|--------------|----------|--|
| <u>T</u> ools ⊻iew <u>H</u> elp | | | | | | | |
| file Upload Firmware | File Manager Upload/Do | Process C Net | work S Autolaur | nch Time Setup Ma | bile | | |
| 😑 😁 Moxa (192.168.2 Firmwa | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 | 92.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| | 2 192.168.27.15 | IA262-CE | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | | | | | | | |

? 🗙 Open 🔽 🕝 🤣 📂 🖽 • Look in: 📋 My Documents My Albums My Music 1 My Recent Documents 🚞 My Scans 🖬 DA-660.frm B MDM_tool.txt 🗐 TEST.txt Desktop My Documents E My Computer DA-660.frm * File <u>n</u>ame: <u>O</u>pen ~ Cancel Files of type: My Network

In the **Open** window, choose the firmware file, and then click **Open** to continue.

If you would like to upgrade the firmware to more computers, make sure that the computers are the same model type and that you have the correct firmware file. Using the incorrect firmware may cause the system to crash. Select additional computers from the **Non-selected device(s)** list and use the left arrow to move them to the **Selected device(s)** list. When ready, click **Upgrade** to continue.

| Firmware Upgrade | | |
|---|-------------------------------------|----------------------------|
| Upgrade the firmware by addin dialog to the appointed device Firmware File: ents and Settings\Bruce\My | ng the file or s, / Document: | ut of the firmware upgrade |
| Device(s) List | | New selected desired A |
| Selected device(s): | - | Non-selected device(s): |
| 192.168.27.17 | > < | 192.168.27.15 |
| |]. | Upgrade Cancel |

Click Yes to continue firmware upgrade.

| Firmware Upg | rade 🛛 🔀 |
|--------------|------------------|
| 😲 Upgra | de the firmware? |
| ОК | Cancel |

You can view the status of the firmware upgrade with the "Upload/Download Viewer" function. See the **Viewing Upload/Download Status** section for details.

Please note that when firmware upload is complete, it will still take several minutes for the system to update the new information. All the functions may not work during this period.

File Manager

The MDM Tool has a **File Manager** function that allows users to mange files on both local and remote computers. Check the computer in the device information area, right-click the computer, and then choose **File Manager**. You may also select the File Manager icon on the toolbar. Note that you can perform this function on only one computer at a time.

| File Upload Firmware File I | anager Upload/Do I | Drocess C Net | vork S Autolaun | ch Time Setup Ma | bile | | |
|-----------------------------|--------------------|---------------|-----------------|-----------------------|--------------|----------|--|
| Moxa (192.168.27.149) | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 | 192 168 27 17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Moxa | |
| | File Upload | | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | Firmware L | Jpgrade | | | | | |
| | 🚉 🛛 Eile Manag | er | | | | | |
| | 🔅 Process Co | introl | | | | | |
| | Network Se | etup | | | | | |
| | | 1 | | | | | |
| | | | | | | | |
| | Time Setup | | | | | | |

In the local site frame, right-click a file and select a command to continue.

| 🌆 MOXA Device Manager 2.1 | - Manage Moxa Embedde | d Computers Bour | ndlessly | | | | |
|-----------------------------|-----------------------|------------------|---------------------|--|-------|---------------------|---|
| Tools View Help | | | | | | | |
| Tile Upload Firmware File M | anager Upload/Do | C Network 5 | Autolaunch Time Set | rup Mobile | | | |
| Moxa (192.168.27.149) | Local: | | * | Remote: 👔 | | | ~ |
| 192.168.27.17 | Name | Size Type | Modified | Name | Size | Modified | |
| 192.168.27.15 | | File Folder | 05/08/09 19:24:33 | bin | | 2007-05-11 07:21:41 | |
| | Ny Computer | | | dev | | 2006-07-12 16:46:09 | |
| | My Network Places | | | etc | | 1970-01-01 08:02:41 | |
| | 🕑 Recycle Bin | | | home | | 2009-04-27 16:59:44 | |
| | S Internet Explorer | | | ib 🔁 | | 2007-03-31 06:33:13 | |
| | 📙 Adobe Reader 9 | 2 KB Shortcut | 02/18/09 16:19:23 | i mnt | | 2006-02-03 20:10:27 | |
| | Stream | 2 KB Shortcut | 05/08/09 15:29:03 | i proc | | 1970-01-01 08:00:00 | |
| | MP Photosmart Pr | 1 KB Shortcut | 02/02/09 18:44:42 | Coroct | | 2009-02-27 16:20:09 | |
| | MDM Tool | 2 KB Shortcut | 06/29/09 14:30:57 | 🚞 sbin | | 2004-11-03 19:02:39 | |
| | Mero StartSmart | 1 KB Shortcut | 11/17/08 09:45:26 | (interpretation) in the second | | 2006-02-03 20:10:27 | |
| | MDM_2.1_Figures | File Folder | 06/29/09 14:26:33 | 🗀 usr | | 2006-03-21 16:53:28 | |
| | Command Prompt | 2 KB Shortcut | 01/20/09 12:14:46 | 🚞 var | | 2009-06-21 17:56:43 | |
| | Notepad | 1 KB Shortcut | 05/08/09 19:24:22 | 🔟 5c.gif | 18 KB | 2009-04-27 16:23:46 | |
| | W Paint | 1 KB Shortcut | 06/15/09 15:04:06 | 🔟 MDM.jpg | 22 KB | 2009-03-17 13:17:50 | |
| | E TEST Unload | 1 KB Text Doc | 05/08/09 19:32:04 | 🔤 rc | 2 KB | 2009-03-17 14:31:30 | |
| | Download | 1 KB FRM File | 02/25/09 17:53:25 | 📃 reply pattern.txt | 7 KB | 2009-03-16 14:18:44 | |
| | | | | TEST.txt | 1 KB | 2009-06-22 15:35:33 | |
| | Run | | | UC Finder.Ink | 1 KB | 2009-03-17 14:32:19 | |
| | Delete | | | 📃 webrelease folde | 1 KB | 2009-03-17 13:17:29 | |
| | Rename | | | | | | |
| | Change Mode | | | | | | |
| | Local File | | Direction Remote | e File | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | Shareney 10572 KB / 26624 KB | , | 40% | |
| | | | | otorage: 10572 KB 26624 Kb | , | 4U% (| |

The File Manager at the local site offers the following functions:

Upload: Allows users to upload files from the local to the remote computer.

Run: Allows users to run the program on the local computer. You may also double-click the file to run the program. Or you may also use the Enter key to run the program.

Delete: Allows users to delete files on the local computer. You may also use the Delete key to delete the file.

Rename: Allows users to rename files on the local computer. You may also use F2 to perform this function.

Refresh: Use F5 to refresh the page.

On the remote site frame, right-click the file and select the command to continue.

| 🌆 MOXA Device Manager 2.1 | - Manage Moxa Embe | dded Computers Bou | ndlessly | | | |
|--|---|--|--|--|---|---|
| <u>I</u> ools <u>V</u> iew <u>H</u> elp | | | | | | |
| file Upload Firmware File M | anager Upload/Do Pro | ocess C | Autolaunch Time Set | up Mobile | | |
| 😑 🤭 Moxa (192.168.27.149) | Local: | | * | Remote: | | ~ |
| 192.168.27.17 | Name | Size Type | Modified | Name | Size Modified | |
| 192.168.27.15 | Name My Documents My Computer My Network Places Recycle Bin Counter Module Reader 9 CyberLink Stream MoM Tool Nero StartSmart MoM Tool Notepad Paint TEST.txt UC-7408.frm Local File Local File | Size Type File Folder 2 K8 Shortcut 2 K8 Shortcut 1 K8 Shortcut 2 K8 Shortcut 1 K8 Shortcut 1 K8 Shortcut 1 K8 Shortcut 1 K8 Shortcut 1 K8 Shortcut 1 K8 FRM File | Modified 05/08/09 19:24:33 02/18/09 16:19:23 05/08/09 15:29:03 02/02/09 18:44:42 06/29/09 14:30:57 11/17/08 09:45:26 06/29/09 14:26:33 01/20/09 12:14:46 05/08/09 19:24:22 05/08/09 19:24:22 05/08/09 19:32:04 02/25/09 17:53:25 | Name Name bin bin dev etc home bin proc soin root soin trup usr var Sc.gif Sc.gif Sc.gif Sc.gif UCFit Upload UCFit Download Run Delete Rename change Mod | Size Modified 2007-05-11 07:21 2006-07-12 16:45 2009-04-27 16:55 2009-04-27 16:55 2009-04-27 16:52 2009-04-27 16:25 2009-02-27 16:25 2009-02-27 16:25 2009-02-27 16:25 2009-02-27 16:25 2009-06-21 17:56 18 KB 2009-03-21 16:25 2009-04-27 16:25 2009-03-21 16:14 2 KB 2009-03-17 14:31 7 KB 2009-03-17 14:32 1 | :41 :09 :41 :41 :13 :27 :00 :09 :27 :28 :44 :43 :30 :30 :30 :30 :44 :43 :33 :19 :29 |
| | | | | | | |
| I and the second se | | | 9 | otorage: 10572 KB / 26624 I | KB 40% [| |

File Manager at the remote site offers the following functions:

Download: Allows users to download files from the remote to the local computer. You may select more files to download by pressing the shift key and the file.

Run: Allows users to run the program on the remote computers. You may also double-click the file to run the program.

Delete: Allows users to delete files on the remote computers. You may select more files to delete by pressing the shift key and the file.

Rename: Allows users to rename files on the remote computers.

Change Mode: Allows users to change the file access permissions on the remote computers (for Linux models only).

Moxa Device Manager 2.1 User's Guide

File Manager also provides a **Refresh** and **Add Folder** function on both sides. Right-click the space area in the local or remote frame, select **Refresh** (or press F5 key) to refresh the directories and files; and then select **Add Folder** to create a new directory on the computers.

| 🌆 MOXA Device Manager 2.1 | - Manage Moxa Embed | ded Computers Bour | ndlessly | | | | |
|-----------------------------|--|--|---|---|--|--|----|
| Tools View Help | | | | | | | |
| Tile Upload Firmware File M | anager Upload/Do Proc | iess C Network S | Autolaunch Time Set | up Mobile | | | |
| 🖃 🤭 Moxa (192.168.27.149) | Local: | | ~ | Remote: | | | ~ |
| 192.168.27.17 | Name | Size Type | Modified | Name | Size | Modified | |
| ₩ (28.4.4)/49554 | My Documents My Network Places Recycle Bin Excycle Bin CyberLink Stream My Hermet Explorer CyberLink Stream MPH Photosmart Pr Mom_2.1_Figures Command Prompt Noros StartSmart MOM_2.1_Figures Command Prompt Notepad Paint TEST.txt U-7408.frm | File Folder 2 KB Shortcut 2 KB Shortcut 1 KB Shortcut 2 KB Shortcut 1 KB Shortcut File Folder 2 KB Shortcut 1 KB Short | 05/08/09 19:24:33 02/18/09 16:19:23 05/08/09 15:29:03 02/02/09 18:44:42 06/29/09 14:44:42 06/29/09 14:26:33 01/20/09 14:26:33 01/20/09 19:24:22 06/15/09 19:24:22 06/15/09 19:24:22 06/15/09 19:24:22 | bin dev etc bome bome bin mot proc for bome bin bin proc for bome bin | 18 KB 22 KB 2 KB 7 KB 1 KB 1 KB 1 KB | 2007-05-11 07:21:41 2006-07-12 16:46:09 1970-01-00 80:02:41 2009-04-27 16:59:44 2007-03 20:10:27 1970-01-01 08:00:00 2009-02-27 16:20:09 2006-02-03 20:10:27 2006-03-21 16:19:02:39 2009-06-21 19:02:39 2009-06-21 17:56:43 2009-03-17 16:13:14 2009-03-17 16:13:13 2009-03-16 14:18:14 2009-05-22 15:38:33 2009-03-17 14:32:19 | L. |
| | | / | | | | | |
| | Local File | | Direction Remote | - File | | | |
| | Locarrile | | Directori Kellioo | 0180 | | | |
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| 🏂 MOXA Device Manager 2.1 | - Manage Moxa Embe | edded Comp | uters Bour | ndlessly | | | | |
|---|---------------------|------------|-------------|-------------------|-----------------------------|-------|---------------------|---|
| <u>T</u> ools <u>V</u> iew <u>H</u> elp | | | | | | | | |
| Tile Upload Firmware File M | anager Upload/Do Pi | rocess C | Jetwork S | Autolaunch Time S | Setup Mobile | | | |
| 🖃 🤭 Moxa (192.168.27.149) | Local: | | | | Remote: | | | ~ |
| 192.168.27.17 | Name | Size | Type | Modified | Name | Size | Modified | |
| 192.168.27.15 | My Documents | 5,20 | File Folder | 05/08/09 19:24:33 | Chip | 5420 | 2007-05-11 07:21:41 | |
| | My Computer | | The Folder | 03/00/07 17/21/33 | dev | | 2007-03-11-07:21:11 | |
| | My Network Places | | | | Betc | | 1970-01-01 08:02:41 | |
| | Recycle Bin | | | | bome | | 2009-04-27 16:59:44 | |
| | Internet Explorer | | | | alib | | 2007-03-31 06:33:13 | |
| | Adobe Reader 9 | 2 KB | Shortcut | 02/18/09 16:19:23 | ampt | | 2006-02-03 20:10:27 | |
| | CyberLink Stream | 2 KB | Shortcut | 05/08/09 15:29:03 | Droc | | 1970-01-01 08:00:00 | |
| | HP Photosmart Pr | 1 KB | Shortcut | 02/02/09 18:44:42 | Groot | | 2009-02-27 16:20:09 | |
| | MDM Tool | 2 KB | Shortcut | 06/29/09 14:30:57 | sbin | | 2004-11-03 19:02:39 | |
| | Nero StartSmart | 1 KB | Shortcut | 11/17/08 09:45:26 | 1 tmp | | 2006-02-03 20:10:27 | |
| | MDM 2.1 Figures | | File Folder | 06/29/09 14:26:33 | Dusr | | 2006-03-21 16:53:28 | |
| | Command Prompt | 2 KB | Shortcut | 01/20/09 12:14:46 | ar | | 2009-06-21 17:56:43 | |
| | Notepad | 1 KB | Shortcut | 05/08/09 19:24:22 | 🗟 5c.qif | 18 KB | 2009-04-27 16:23:46 | |
| | W Paint | 1 KB | Shortcut | 06/15/09 15:04:06 | MDM.jpg | 22 KB | 2009-03-17 13:17:50 | |
| | TEST.txt | 1 KB | Text Doc | 05/08/09 19:32:04 | 📅 rc | 2 KB | 2009-03-17 14:31:30 | |
| | 🗖 UC-7408.frm | 1 KB | FRM File | 02/25/09 17:53:25 | 📋 reply pattern.txt | 7 KB | 2009-03-16 14:18:44 | |
| | _ | | | | E TEST.txt | 1 KB | 2009-06-22 15:35:33 | |
| | | | | | Ja UC Finder.Ink | 1 KB | 2009-03-17 14:32:19 | |
| | | | | | 🔋 webrelease folde | 1 KB | 2009-03-17 13:17:29 | |
| | | | | | | 1.00 | | |
| | < | | |) (| > Refresh Add Folder | | | |
| | Local File | | | Direction Rem | note File | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | Storage: 10572 KB / 26624 k | в | 40% | |
| | | | | | storage. reerz ho / coocra | | | |

Viewing Upload/Download Status

MDM Tool provides an **Upload/Download Viewer** function. Click the **Upload/Download Viewer** icon in the toolbar. You can view the upload and download status in the Upload List and Download List. You may use the Clear button to clear all finished and failed items in the lists.

| 🧱 MOXA Device Manager 2.0 - Manage Moxa Embedded Computers Boundlessly | | | | | | | | | | |
|--|-------------|---------------|--|--------------------------------|----------|-------|--|--|--|--|
| <u>T</u> ools <u>Y</u> iew <u>H</u> elp | | | | | | | | | | |
| 1 🛃 🗟 🖺 🧔 | - | 🎭 🛸 🔞 | | | | | | | | |
| ☐ Ocalhost (192.168.30.30) | Upload List | | | | | | | | | |
| 192.168.30.93 | | Device IP | Local File | Remote File | Progress | | | | | |
| - 🔵 Trial (192.168.27.149) | 1 | 192.168.30.81 | D:\Dev\00_Release\00 Testing\06_1M. | /home/Test/06_1M.dll | 100 % | | | | | |
| - 💮 Modia (192.168.30.49) | | 192.168.30.95 | D:\Dev\00_Release\01 Firmware\CE\U | firmware | 69 % | | | | | |
| | 0 | 192.168.30.93 | D:\Dev\00_Release\00 Testing\06_1M. | /home/06_1M.7z | 76 % | | | | | |
| | 0 | 192.168.30.93 | D:\Dev\00 _Release\00 Testing\06_1M. | /home/06_1M.dll | 13 % | | | | | |
| | \bigcirc | 192.168.30.93 | D:\Dev\00 _Release\00 Testing\2009_0 | /home/2009_0302 MDM2.0_SW E-T | 36 % | | | | | |
| | × | 192.168.30.93 | D:\Dev\00 _Release\00 Testing\Test\rep | /reply pattern.txt | 100 % | | | | | |
| | Do | wnload List | | | (| Clear | | | | |
| | | Device IP | Local File | Remote File | Progress | | | | | |
| | ~ | 192.168.30.81 | D:\Dev\00_Release\00 Testing\Test\20 | /home/2009_0302 MDM2.0_SW E-T | 100 % | | | | | |
| | 0 | 192.168.30.93 | D:\Dev\00_Release\00 Testing\Test\06 | /home/Test/06_1M.7z | 66 % | | | | | |
| | 0 | 192.168.30.93 | D:\Dev\00_Release\00 Testing\Test\06 | /home/Test/06_1M.dll | 0 % | | | | | |
| | | 192.168.30.93 | D:\Dev\00 _Release\00 Testing\Test\20 | /home/Test/2009_0302 MDM2.0_SV | 0 % | | | | | |
| | | | | | | | | | | |

You may also view the status of the computers by the different icons in the list.

| 🌆 MOXA Device Manager 2.0 - I | Manage Moxa Embedo | led Computers Boundlessly | | |
|-------------------------------|-----------------------|--|--------------------------------|----------|
| Iools Yiew Help | : 🌆 🔊 🔞 | | | |
| □ O Localhost (192.168.30.30) | Upload List | | | Clear |
| 192.168.30.95 | Device IP | Local File | Remote File | Progress |
| | ✓ 192.168.30.81 | D:\Dev\00 _Release\00 Testing\06_1M. | /home/Test/06_1M.dll | 100 % |
| Trial (192.168.27.149) | 1 92.168.30.95 | D:\Dev\00 _Release\01 Firmware\CE\U | firmware | 69 % |
| (192.100.30.45) | 0 192.168.30.93 | D:\Dev\00 _Release\00 Testing\06_1M. | /home/06_1M.7z | 76 % |
| | 192.168.30.93 | D:\Dev\00 _Release\00 Testing\06_1M. | /home/06_1M.dll | 13 % |
| | 0 192.168.30.93 | D:\Dev\00 _Release\00 Testing\2009_0 | /home/2009_0302 MDM2.0_SW E-T | 36 % |
| | × 192.168.30.93 | D:\Dev\00 _Release\00 Testing\Test\rej | /reply pattern.bd | 100 % |
| Ē | Download List | | | Clear |
| | Device IP | Local File | Remote File | Progress |
| | 192.168.30.81 | D:\Dev\00 _Release\00 Testing\Test\20 | /home/2009_0302 MDM2.0_SW E-T | 100 % |
| | 9 192.168.30.93 | D:\Dev\00_Release\00 Testing\Test\06 | /home/Test/06_1M.7z | 66 % |
| | 192.168.30.93 | D:\Dev\00_Release\00 Testing\Test\06 | /home/Test/06_1M.dll | 0 % |
| | 0 192.168.30.93 | D:\Dev\00 _Release\00 Testing\Test\20 | /home/Test/2009_0302 MDM2.0_SV | 0 % |

See the following descriptions for each status.

Icons for the computers:



Icons for the upload and download status list:

| | Waiting |
|--------------|-------------------------|
| | Proceed to Gateway |
| | Transferring (file) |
| | Transferring (firmware) |
| \checkmark | Finished |
| × | Failed |

Controlling the Process

MDM Tool provides a **Process Control** function that allows users to kill programs running on the remote computer. Check the computer in the device information area, right-click the computer, and choose **Process Control**. You can also select the **Process Control** icon from the toolbar.



If you would like to use the Process Control function on two or more computers, check these computers and select the **Process Control** icon in the toolbar.

| MOXA Device Manager 2.1 - Manage Moxa Embedded Computers Boundlessly | | | | | | | |
|--|---------------------|---------------------------|---------------|-----------------------|--------------|----------|--|
| <u>T</u> ools <u>V</u> iew <u>H</u> elp | | | | | | | |
| 1 File Upload Firmware Fil | e Manager Upload/Do | Process C Net | 🐜 🔉 | ch Time Setup Ma | bile | | |
| 🖃 😁 Moxa (192.168.27.149) | Device IP | Process Con Moder Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 | 2 192.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| | 92.168.27.15 | IA262-CE | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | | | | | | | |

You can view the Memory information for each computer and all programs running on remote computers and kill programs by clicking the **Kill** button in the last column of the list.

| MOXA Device Manager 2.1 | - Manage Moxa Embedded | Computers Boundlessly | | |
|----------------------------------|----------------------------|---------------------------------|------------|------|
| 1 File Upload Firmware File M | anager Upload/Do Process (| Network S Autolaunch Time Setup | | |
| 🖃 😁 Moxa (192.168.27.149) | ID | Process | Kill | ^ |
| 192.168.27.17 | 📃 192.168.27.17 M | lemory: 36296 KB / 127272 KB | | |
| - | 44 | /usr/sbin/inetd | 48 | |
| | 50 | /usr/sbin/httpd | 48 | |
| | 60 | /usr/sbin/httpd | 48 | |
| | 61 | /usr/sbin/httpd | | |
| | 62 | /usr/sbin/httpd | * | |
| | 63 | /usr/sbin/httpd | ** | |
| | 64 | /usr/sbin/httpd | * | |
| | 78 | /sbin/dhcpcd-bin | | |
| | 92 | /sbin/portmap | | |
| | 99 | /bin/sh | * | |
| | 101 | /bin/sh | 4 | |
| | 112 | ./mdm2 | * | |
| | 115 | /usr/sbin/rpc.statd | * | |
| | 127 | /usr/sbin/snmpd | * | |
| | 128 | /usr/sbin/rpc.nfsd | 4 % | |
| | 130 | /usr/sbin/rpc.mountd | 48 | |
| | 137 | /usr/sbin/sshd | 48 | |
| | 143 | /bin/lcmshowinfo | 48 | |
| | 144 | /bin/reportip | 48 | |
| | 155 | /sbin/getty | 48 | |
| Readv | 4400 | closp Storage: 10572 KB / 26 | | ···· |

Click **OK** to kill the program.

| <u>⊥</u> ools <u>V</u> iew <u>H</u> elp | | | | |
|---|----------------------|-----------------------------------|------------|--|
| Tile Upload Firmware File N | Anager Upload/Do | C Network S Autolaunch Time Setup | | |
| Moxa (192.168.27.149) | ID | Process | Kill | |
| 192.168.27.15 | 192.168.27.17 | Memory: 36296 KB / 127272 KB | | |
| | 44 | /usr/sbin/inetd | * | |
| | 50 | /usr/sbin/httpd | * | |
| | 60 | /usr/sbin/httpd | - * | |
| | 61 | /usr/sbin/httpd | * | |
| | 62 | /usr/sbin/httpd | * | |
| | 63 | Kill | * | |
| | 64 | | * | |
| | 78 | Kill the process? | * | |
| | 92 | | * | |
| | 99 | | * | |
| | 101 | /bin/sh | * | |
| | 112 | Jmdm2 | * | |
| | 115 | /usr/sbin/rpc.statd | 4 | |
| | 127 | /usr/sbin/snmpd | * | |
| | 128 | 128 /usr/sbin/rpc.nfsd | | |
| | 130 | /usr/sbin/rpc.mountd | 48 | |
| | 137 | /usr/sbin/sshd | * | |
| | 143 | /bin/Icmshowinfo | * | |
| | 144 | /bin/reportip | * | |
| | 155 | /sbin/getty | * | |
| | 4400 | cloon | ه | |

Setting Up the Network

MDM Tool provides a **Network Setup** function that allows users to configure network settings. Check and right-click the computer and then select **Network Setup** to continue. You may also use the **Network Setup** icon from the toolbar to complete the task. You can only do Network Setup on one computer at a time. Before you perform this task, make sure that your network cable is connected and the Internet service is available.

| 🌆 MOXA Device Manage | r 2.1 - Manage Mo | xa Embedded Comput | ers Boundlessly | | | | |
|---------------------------------|----------------------|--|-----------------|-----------------------|--------------|----------|--|
| <u>T</u> ools ⊻iew <u>H</u> elp | | | | | | | |
| 10 File Upload Firmware | File Manager Upload/ | Do Process C Net | vork S Autolaun | ich Time Setup Ma | bile | | |
| 🖃 😁 Moxa (192.168.27.149 |) Device | IP Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 | 192 168 2 | 7.17 DA-660-LV | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| | 192 🚺 | File Upload | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | | Ele Manager Process Control Network Setup Autolaunch Ime Setup Reboot | | | | | |

This function configures the IP address and configures the DNS settings of the computers. Click the **IP** tab select the interface, and enter the related IP information, including the interface name, DHCP or Fixed IP, IP address, subnet mask, and default gateway. If the computer has more than one network interface, select from the **Interface Name** section to continue.

| Network Setup - 192. | 168.27.17 | × |
|---|---|---|
| IP DNS | | _ |
| Obtain IPs from a DHO and edit the IP addres | CP server or click the fixed IP button 55. | |
| Interface Name: | eth0 | |
| ODHCP | | |
| • Fixed IP | | |
| IP Address: | 192 . 168 . 30 . 50 | |
| Subnet Mask: | 255 . 255 . 255 . 0 | |
| Default Gateway: | <u></u> | |
| MAC Address: | 00:90:e8:87:46:58 | |
| | | 2 |
| | | |
| | OK Apply Cance | |

Click **OK** or **Apply** to finish the process. In the following window, click **OK**. Note that the network connection will be immediately disconnected. It takes about 5 to 10 seconds to activate your new network settings.



For Linux models, please note that if you have used the **ipconfig** command instead of the network configuration file for network settings, the IP address on the title bar may not be the same as the one shown in the IP Address column.

| Network Setup - 192. | 168.30.81 | | × |
|---|-------------------------|-----------------------|---|
| IP DNS | | | |
| Obtain IPs from a DHC and edit the IP addres | P server or clicl s. | k the fixed IP button | |
| Interface Name: | eth0 | ~ | |
| ODHCP | | | |
| • Fixed IP | ↓ | | n |
| IP Address: | 192 . 168 | . 30 . 70 | |
| Subnet Mask: | 255 , 255 | . 255 . 0 | |
| Default Gateway: | | n 9 | |
| MAC Address: | 00:90:e8:0f:2 | 2b:0a | |
| | | | 2 |
| | K A | pply Cancel | |

Enter the IP address to configure the new network settings.

Moxa Device Manager 2.1 User's Guide

Next click **Network Setup** and the **DNS** tab for DNS configuration. Select the interface name you would like to configure and enter the relevant information of the DNS server, including primary DNS and secondary DNS.

| Network Setup - 192. | 168.27.17 | | | × |
|-------------------------------------|---|------------|-----------|---|
| IP DNS | | | | |
| Edit the IP address for Windows. | DNS server ol | f each int | erface on | |
| Interface Name: | | | ~ | |
| DNS Server: | | | | |
| Primary DNS: | 168 . 95 | . 1 | . 1 | |
| Secondary DNS: | | - 6, - 5 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 0 | <u>× </u> | Apply | Cance | |

Click **OK** to finish the network settings.

For Windows XP Embedded models, note that the settings will not be updated immediately. We strongly recommend that you wait for at least 30 seconds to make sure that all new networking settings have been completely updated.

Autolaunch

MDM Tool provides an **Autolaunch** function that allows users to configure programs to be launched automatically when the system starts. Check and right-click the computer and then select **Autolaunch** to continue. You may also use the **Autolaunch** icon on the toolbar to do this task. Note that you can only use the Autolaunch function on one computer at a time.

| ools <u>vi</u> ew <u>H</u> elp 10 see ile Upload Firmware File I | 🗟 🛅 👸 Manager Upload/Do Proces | s C Network S Autolaur | ich Time Setup Mc | bile | | |
|--|-----------------------------------|------------------------|-----------------------|--------------|----------|--|
| Moxa (192.168.27.149) 192.168.27.17 192.168.27.15 | Device IP Ma | del Name Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| | 103460 3747 DA 6 | eo | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| | File Upload | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | Elle Manager | | | | | |
| | Autolaunch | | | | | |

Type the program in the field and then click **Add**. You must type the full path and the full file name of the program, including the file extension.

| Auto Launch - | 192.168.27.17 | |
|-------------------|-----------------------------------|-----------|
| Assign auto launo | h program by adding program and a | rguments. |
| Program: | Arguments: | |
| | | Add |
| Program | Arguments | Delete |
| /home/mdm/md | m_s | Move Up |
| | | Move Down |
| | | |
| | ОКС | ancel |

The program will be added into the autolaunch list. You may use **Move Up** or **Move Down** to determine the sequence of the autolaunch programs. Click **OK** to finish. The program will be automatically launched when the system restarts.

Setting Up the Time

MDM provides a **Time Setup** function that allows users to configure the system time. Check and right-click the computer and then select **Time Setup** to continue. You may also use the **Time Setup** icon from the toolbar. Note that you can only use the Time Setup function on one computer at a time.

| MOXA Device Manager 2.1 | 1 - Manage Moxa Eml | bedded Compute | ers Boundlessly | | | | |
|---------------------------------|---------------------|----------------|-----------------|-----------------------|--------------|----------|--|
| Tools <u>V</u> iew <u>H</u> elp | 1 | | | _ | | | |
| File Upload Firmware File I | Manager Upload/Do | Process C Netv | vork S Autolaun | ch Time Setup Mo | bile | | |
| 🖃 🤭 Moxa (192.168.27.149) | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| 192.168.27.17 | 192 188 27 17 | D4-660-1 X | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| | File Uplo | oad | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | Firmwar | e Upgrade | | | | | |
| | 🗟 Eile Man | ager | | | | | |
| | Process | Control | | | | | |
| | Network | Setup | | | | | |
| | Autolau | nch | | | | | |
| | Time Se | tin | | | | | |
| | Turo 20 | | | | | | |
| | Reboot | | | | | | |
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| Cat up queton data and time | | | | | | | |
| Dec up system date and time | | | | | | | |

Windows users can only configure the system time. Linux users can configure both the system time and RTC time. To configure the RTC time, click **Sync RTC** to synchronize the RTC time with System time. Please note that the RTC Time year must be between 2000 and 2099. Click **OK** to finish.

| Date/Time Setup - 192.168 | .27.17 🛛 🔀 |
|---|--|
| Modify system date/time by char date/time with system date/time System Time | nging the values. Synchronize RTC (Linux model only). |
| 11 12 1 | Saturday , Dune 2 🗸 |
| | 3:48:49 PM |
| 9 8 4 | Apply |
| RTC Time: 2009-Jun-27 15: | 49:03 |
| Sync RTC | OK Cancel |

Configuring the Wireless Embedded Computers

MDM 2.1 enables users to configure Moxa's wireless embedded computers. Currently, MDM 2.1 supports the W406 Series.

Checking SIM Card Status

When the W406 computer is detected, A Mobile icon will appear and be enabled on the toolbar. Two additional icons, AT Command and SIM Status, will appear on the right of the main window. MDM will check the SIM card status, so you will need to wait for a few seconds until the check is completed.





If the SIM card has not been inserted, the following page will appear. Please insert the SIM card and double-click the SIM Status icon on the mobile menu. MDM will check the SIM card status again. If the SIM card is not ready, you will only be able to use the AT Command.



The following page will appear if you need to enter the PIN or PUK code provided by the ISP. Enter the code in the field and click **OK** to continue.

| 🌆 MOXA Device Manager 2.1 - Manage | Moxa Embedded Computers Boundlessly | |
|--|---|-----------------------------------|
| <u>T</u> ools <u>V</u> iew <u>H</u> elp | | |
| Tile Upload Firmware U File Manager U | 1 Jplosd/Do Process Co | |
| Wireless Gateway (192.168.3) 192.168.30.88 192.168.30.81 | A Status The SIM card is locked by PIN code. Please input the PIN code: OK Note: Please make sure the PIN code is correct otherwise the SIM card may be locked by the PUK code. | Mobile ATCommand SIM Status |
| Ready | Storage: 4044 KB / 5120 KB 79% 🔳 | |
| | Notings, 1011 MD 1910 MD 1970 | /// |

Moxa Device Manager 2.1 User's Guide

When ready, you will see the following page. Six additional icons will appear on the right of the main page. You can click these icons to configure the wireless computer. If you have problems connecting to the wireless computer, you may check the SIM card status by clicking the **SIM Status** icon.



Connecting to and Disconnecting from the Internet

Click GPRS icon. When the wireless computer is connected to the Internet, the **Connected** icon will appear as green. Click **Disconnect** to disconnect. If you would like to reconnect, click **Connect**.

Please note that the Connection/Disconnection status will not be automatically updated; for the latest status, double-click the GPRS icon.

| 🌆 MOXA Device Manager 2.1 | - Manage Moxa Embedded Computers Boundlessly | | |
|---|---|--------------------|--|
| <u>T</u> ools <u>V</u> iew <u>H</u> elp | | | |
| tile Upload Firmware File M | anger Upload/Do Process C Network S Autolaunch Time Setup Mobile | | |
| Wireless Gateway (192.168.30) 192.168.30.84 | CDDS Copposition | | Mobile |
| 192.168.30.199 | | | |
| | | | GPRS |
| | Connection | | |
| | Disconnected Bend: CSM 000 MH-+ CSM 1900 MH+ | Connect | SMS |
| | Operator Name: Chunghwa Teleco | | Phone Book |
| | APN: internet | | NT |
| | Reconnect stopped | | Configuration |
| | Start auto-reconnection with time interval (sec): 10 Stop the auto-reconnection. | | AT:_ |
| | | Apply | AT Command |
| | - Diagnosis | | STM C |
| | | | SIM Status |
| | | Diagnose | |
| < | | | |
| | Storage: 3976 KB / 5120 K | 8 78% 💷 | |
| | 3 | | |
| MOXA Device Manager 2.1 | - Manaze Moxa Embedded Computers Boundlessly | | |
| MOXA Device Manager 2.1 Tools <u>View H</u> elp | - Manage Moxa Embedded Computers Boundlessly | | |
| MOXA Device Manager 2.1 Tools View Help | - Manage Moxa Embedded Computers Boundlessly | | |
| MOXA Device Manager 2,1 Iools View Help Tile Upload Firmware File M | - Manage Moxa Embedded Computers Boundlessly | | |
| MOXA Device Manager 2.1 Iools View Help File Upload Firmware File M. File Upload Setways (192.168.30 192.168.30.84 | - Manage Moxa Embedded Computers Boundlessly | | Hobile |
| MOXA Device Manager 2,1 Tools View Help File Upload Firmware File M 192,168,30,84 192,168,30,199 | - Manage Moxa Embedded Computers Boundlessly anager Upload/Do Process C Network S Autolaunch Time Setup Mobile GPRS Connection Cital UC and CDDC area at an advantable. | | Mobile |
| MOXA Device Manager 2.1 Jools View Help File Upload Firmware File M @ Wireless Gateway (192.168.30 192.168.30.199 | - Manage Moxa Embedded Computers Boundlessly anager Upload/Do Process C Network S Autolaunch Time Setup Mobile GPRS Connection Click "Connect" to get GPRS connection automatically. | | Mobile GPRS |
| MOXA Device Manager 2.1 Jools Yew Help File Upload Firmware File M Wireless Gateway (192.166.30 192.168.30.44 192.168.30.199 | - Manage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Mobile Operation Click "Connection Connection Connect | | Mobile GPRS SMS |
| MOXA Device Manager 2,1 Tools View Help File Upload Firmware File M Pile V Pile V Pile Pile M Pile V Pile Pile M Pile V Pile Pile N Pile N Pile V Pile Pile N Pile N Pile N Pile N Pile N Pile V Pile Pile N Pile | - Manage Moxa Embedded Computers Boundlessly anager Upload/Do Process C Network S Autolaunch Time Setup Mobile GPRS Connection Click "Connect" to get GPRS connection automatically. Connection Connection Connected Prod. CONLINENT M. L. CONLINENT M. | Disonnect | Mobile GPRS SMS SMS |
| MOXA Device Manager 2.1 Jools View Help File Upload Firmware File M @ Wireless Gateway (192.168.30 192.168.30.84 192.168.30.199 | Manage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Mobile Process C., Network S., Autolaunch Time Setup Mobile GPRS Connection Click "Connect" to get GPRS connection automatically. Connected Band: GSM 900 MHz + GSM 1800 MHz Operator Name: Chunghwa Teleco | Disonnect | Mobile GRRS SMS SMS Phone Book |
| MOXA Device Manager 2.1 Tools View Help File Upload Firmware File M Windes Gateway (192.168.30 192.168.30.199 | Manage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Mobile Process C Process C Network S Autolaunch Time Setup Mobile GPRS Connection Click "Connect" to get GPRS connection automatically. Connection Onnected Band: GSM 900 MHz + GSM 1800 MHz Operator Name: Chunghwa Teleco APN: intermet | Disonnect | Mobile GPRS SMS SMS Phone Book |
| MOXA Device Manager 2.1 Jools Yew Help File Upload Firmware File M Wineless Gateway (192.166.30 192.168.30.84 192.168.30.199 | Manage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Mobile Process C Process C Autolaunch Time Setup Mobile GPRS Connection Click "Connect" to get GPRS connection automatically. Connection Connected Band: GSM 900 MHz + GSM 1800 MHz Operator Name: Chunghwa Teleco APN: internet: Reconnect stopped | Disonnect | Mobile GPRS SNS Phone Book Configuration |
| MOXA Device Manager 2.1 Tools Yew Help File Upload Firmware File M Winzless Gateway (192.168.30 192.168.30.199 | Manage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Mobile Process C NetworkS Autolaunch Time Setup Mobile GPRS Connection Click "Connect" to get GPRS connection automatically. Connected Band: GSM 900 MHz + GSM 1800 MHz Operator Name: Chunghwa Teleco APN: internet Reconnect stopped Start auto-reconnection with time interval (sec): 10 Stop the auto-reconnection | Disonnect | Mobile GPRS GPRS SMS SMS Phone Book Configuration |
| MOXA Device Manager 2.1 Jools View Help File Upload Firmware File M. Wireless Gateway (192.168.30 192.168.30.84 192.168.30.199 | Manage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Mobile Process C Network S Autolaunch Time Setup Mobile GPRS Connection Click "Connect" to get GPRS connection automatically. Connected Bend: GSM 900 MHz + GSM 1800 MHz Operator Name: Chunghwa Teleco APN: intermet Reconnect stopped Start auto-reconnection with time interval (sec): 10 Stop the auto-reconnection. | Disonnect | Mobile GPRS GPRS SMS SMS SMS Configuration |
| MOXA Device Manager 2.1 Tools Yew Help File Upload Firmware File M Wireless Gateway (192.166.30 192.168.30.84 192.168.30.199 | Manage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Mobile Process C | Disonnect | Mobile GPRS GPRS SMS SMS Phone Book. Configuration AT Command AT Command |
| MOXA Device Manager 2.1 Tools Yew Help File Upload Firmware File M Wineless Gateway (192.166.30 192.168.30.84 192.168.30.199 | Manage Moxa Embedded Computers Boundlessly anager Upload/Do Process C Process C. | Disonnect Apply | Mobile SPRS SPRS SMS SMS Phone Book Configuration AT Command SIM Status |
| MOXA Device Manager 2.1 Tools Yew Help File Upload Firmware File M Winaless Gateway (192.168.30 192.168.30.44 192.168.30.199 | Manage Moxa Imbedded Computers Boundlessly anager Upload/Do Process C Network S Autolaunch Time Setup Mobile | Disonnect Apply | Mobile GPRS SMS SMS Configuration EXAC Configuration SIM Status |

Configuring Reconnection

You may also use the GPRS connection page to configure the reconnection and its time interval. Select **Start auto-reconnection with time interval**, and enter the time interval in the field (in seconds). Click **Apply** to finish. After auto-reconnection is started, it will check if the wireless computer has connected to the Internet. If not, it will try to reconnect based on the time interval setting. Note that for W406-CE models, the auto-reconnection may not be stopped immediately when GPRS is disconnected. It will try to connect, which means that the restart operation may fail, and the auto-reconnection cannot start until it really stops. Meanwhile, whenever you change the reconnection settings, double-click the GPRS icon to make sure the settings have taken effect.

Diagnosing the Wireless Computer

You may also use the GPRS Connection page to diagnose the wireless computer when the mobile functions of your computer are not working. For example, SIM card errors can be diagnosed. Click **Diagnose** to check your wireless computer.

Configuring SMS Functions

Click **SMS**, four tabs will be shown at the bottom of the page:

Inbox: Enables users to read, reply, and send messages.

Edit: Allows users to edit and send messages.

Template: Provides template files for users to save or edit template messages.

History: Displays the history of the SMS export.

Refreshing Message Status

Click Refresh. If a new message has been received, it will appear on the list.

| 🏂 MOXA Device Manager 2.1 - Mana | age Moxa Embedded Con | puters Boundlessly | | |
|---|-----------------------------|------------------------------------|-------------------------|--|
| I_ools ⊻iew <u>H</u> elp | | | | |
| 1 Sile Upload Firmware File Manager | Upload/Do | Network S Autolaunch Time Setup | Mobile | |
| ⊕ Wireless (192.168.30.30) ↓ 192.168.30.81 SI | MS_Inbox | | | Mobile |
| D | isplay incoming SMS me | ssages. Manage messages by deletin | g and/or exporting. | GPRS |
| | Sender | Message | Date/Time | SMS |
| | ✓ +886988195030 | 123456890 | 09/05/26/16:03:58 | |
| | ✓ +886988195030 | 123456890 | 09/05/26/16:04:26 | |
| | ✓ +886988693142 | 60A8597D | 09/06/30/21:47:01 | Phone Book |
| | | Refr | esh Delete Export | Configuration TAC AT Command SIM Status |
| Ready | box gr Edit (Edit Template | I Washistory Storage | : 4044 KB / 5120 KB 79% | (********* |

Deleting Messages

You may delete one or more messages. Checkmark the messages you would like to delete and then click **Delete**.

| 🎫 MOXA Device Manager | 2.1 - Manage Mo | ka Embedded Cor | nputers Boundlessly | | |
|---|-----------------------|----------------------------------|---|----------------------------------|--|
| <u>T</u> ools <u>V</u> iew <u>H</u> elp | | | | | |
| Tile Upload Firmware Fi | File Manager Upload/I | Do Process C | Network S Autolaunch Time Setup | Mobile | |
| Olympics (192.168.30.30) |)) SMS_I Display i | nbox ncoming SMS me Sender | essages. Manage messages by dele Message | ting and/or exporting. Date/Time | Mobile GPR5 SMS |
| | <u>⊠</u> +1 | 186988195030 186988195030 | 123456890 123456890 | 09/05/26/16:03:58 | |
| | ∀ + | 86988693142 | 60A8597D | 09/06/30/21:47:01 | Phone Book |
| | | | R | efresh Delete Export | Configuration TAC AT Command SIM Status |
| Ready | | Luic (| Stora | ge: 4044 KB / 5120 KB 79% | |

Click **OK** to finish.



Exporting Messages

| | 9 | iputers boundlessey | | کار لیار کا |
|---|---------------------------------------|-------------------------------------|------------------------|--|
| <u>T</u> ools <u>V</u> iew <u>H</u> elp | · · · · · · · · · · · · · · · · · · · | | | |
| file Upload Firmware File Manager | Upload/Do | Network S Autolaunch Time Setup | Mobile | |
| (wireless (192.168.30.30) 192.168.30.81 D | MS_Inbox isplay incoming SMS me | ssages. Manage messages by deleting | and/or exporting. | Mobile GPRS |
| | Sender | Message | Date/Time | SMS |
| | 🗹 +886988195030 | 123456890 | 09/05/26/16:03:58 | SMS |
| | 🛃 +886988195030 | 123456890 | 09/05/26/16:04:26 | |
| | ✓ +886988693142 | 60A8597D | 09/06/30/21:47:01 | Phone Book |
| | | Refre | rsh Delete Export | Configuration TAC AT Command SIM Status |
| Deadu | box 📝 Edit 🔝 Template | History | 4044 KB / 5120 KB 709/ | |

Checkmark the messages you would like to export.

Click OK to finish. The selected messages will be sent to the SMS History list.



Reading a Message

Click the **Inbox** tab. The main page of the SMS Inbox will appear. When the list of all messages sent to your wireless computer appears, double-click the one you would like to read.

| 🌆 MOXA Device Manager 2.1 - M | lanage Moxa Embedded Cor | nputers Boundlessly | | |
|---|--------------------------------------|--|--------------------------|---|
| Iools Yiew Help | | | | |
| tile Upload Firmware File Manag | ger Upload/Do | Image: Second system Image: Se | Mobile | |
| Wireless Gateway (192.168.3) 192.168.30.84 192.168.30.199 | SMS_Inbox Display incoming SMS me | issages. Manage messages by deleti | ng and/or exporting. | Mobile GPR5 |
| | Sender | Message | Date/Time | |
| | +886988195030 | 123456890 | 09/05/26/16:03:58 | SMS |
| | 🕝 +886988195030 | 123456890 | 09/05/26/16:04:26 | |
| | 🗹 +886988693142 | 60A8597D | 09/06/30/21:47:01 | Phone Book |
| | | Re | fresh Delete Export | Configuration TA AT Command SIM Status |
| < No. 100 No. | Inbox 📝 Edit 🖳 Template | I Storage | e: 3980 KB / 5120 KB 78% | |

You may read the message in the following dialog box. Click **OK** to finish.

| SMS | | × |
|-----------|-------------------|---|
| Sender | +886988693142 | |
| Date/Time | 09/06/30/21:47:01 | |
| Message | | |
| 60A8597D | | |
| | Reply Delete OK | ~ |

Deleting a Message

Click **Delete** if you would like to delete this message. Or click **OK** to finish. The message dialog box will close.

| SMS | | |
|---------------------|------------------------------------|----|
| Sender Date/Time | +886988693142 09/06/30/21:47:01 | |
| Message | | |
| 60A8597D | | |
| | | ~ |
| | Reply Delete | ОК |

Replying a Message

If you would like to reply, click **Reply** and type the message in the message field.

| SMS | | \mathbf{X} |
|-----------|-------------------|--------------|
| Sender | +886988693142 | |
| Date/Time | 09/06/30/21:47:01 | |
| Message | | |
| 60A8597D | | N I |
| | Reply Delete OK | |

Moxa Device Manager 2.1 User's Guide

The telephone number will appear. You may change the number by typing the new phone number in the field, or by selecting a number from the **Phonebook** if the number has been already recorded. Type the message in the field and click **Send** to finish sending the message.

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| G ♥ Wireless Gateway (192.168.30. | Mobile |
| SMS_Edit | 8 |
| Edit SMS message on message window or select from the template and then send out the | |
| message (English only). | GPRS |
| Phone Number: | SMS SMS |
| +886988195030 Phone Book | SMS |
| | |
| Message: Counter: 140 | Phone Dools |
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| | N C |
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| | AT:_ |
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Sending a Message

Select the **Edit** tab. The main page for editing a message will appear. Enter the telephone number in the field, or select a number from the **Phonebook** if the number has already been recorded. Type the message in the field and click **Send** to finish sending the message.

Note that you can only send the messages in ASCII mode. Binary mode (Unicode) is not supported.



When selecting a number from the **Phonebook**, a new window will pop up. Click the number you would like to send a message to, and then click **OK** to finish.

| | r import. |
|------------|--------------|
| Name | Phone Number |
| self | 0988713219 |
| ohonebook2 | 12456789 |
| est3 | +23456789 |
| | |
| | |
| | |

Editing the Template

When editing the message, you may select the content from the template.

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| | | | | | | |
| | | | | | | |
| < > | 🛃 Inbox 📝 Edit | 🛃 Template 🔯 History | | | | _ |
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Select **Read from Template**. Double-click the template you would like to use as the message. Click **Send** in the main page to send the message.

| MS Template List | × |
|---|-------|
| Double-click to select the message from the template list. | |
| Message | |
| template 1 for receiving data | |
| template 2 for transmitting data | |
| template 3 for sending a message to control center | |
| template 4 for sending sending a message to the administrator | |
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Moxa Device Manager 2.1 User's Guide

After entering the message in the field, you have the option to save the message as the new template in case you will be using it again in the future. Select **Add to Template** to save the message in this way. Note that when adding a new message to a template, if the message is blank, a popup window will appear to remind you that you cannot save a blank message as a template.

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| tie Upload Firmware U File Man | ager Upload/Do Process Co Se Autolaunch Time Setup Mobile | |
| ♥ Wireless Gateway (192, 168, 30, 192, 168, 30, 88) 192, 168, 30, 81 192, 168, 30, 81 192, 168, 30, 81 | SMS_Edit Edit SMS message on message window or select from the template and then send out the message (English only). Phone Number: +886938195030 Phone Book Message: Counter: 140 Counter: | Mobile GPRS GPRS SMS SMS Phone Book Configuration AT Command SIM Status |
| < >>> | M INDOX W LOII I Implate W History | |
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Displaying the History for Export

This function allows users to see which messages have been exported. To delete the history, select the record and click **Delete**.

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| | | Sender | Message | Date/Time | |
| | +88698 | 18713220 | L× 406 | 09/06/26,16:03:07 | SMS |
| | -+88698 | 8713219 | 868666666666666666666666666666666666666 | 09/06/26,15:58:08 | |
| | +88698 | 18713219 | 000000000000000000000000000000000000000 | 09/06/26,15:58:20 | Phone Book |
| | | 18713219 | | 09/06/26,15:58:43 | NT I |
| | | | | | Configuration ATA AT Command 30 SIM Status |
| < | Inbox 📝 Edit | Template | S History | Delete | |
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Editing the Phonebook

You may edit the contents of the phonebook, including name and phone number. Double-click the existing name or phone number you want to edit, and then enter the new information. Click **Save** after entering the new information.

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| tile Upload Firmware File Man | ager Upload/Do P | rocess C | Autolaunch Time Setup Mob | le | |
| Wireless (192,168,30,30) 192,166,30,81 | Phone Boo Edit save, delet | k e, export, and import | phone book by applying each fun | ction buttons. | Mobile GPRS |
| | | Name | Phone Number | Save | SMS |
| | | Moxa I | 0987134567 | Delete | |
| | | Moxa 3 | 0955133456 | Export | Phone Book |
| | | 1 | | Import | and the second s |
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Adding a New Name and Phone Number

To add a new name and phone number, double-click an empty field in the name and phone number columns and then enter the information. Click **Save** to finish.

Note that you can add up to 10 phone numbers to the phone book.

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| Wireless Gateway (192.168.30. 192.168.30.88 192.168.30.81 | Phone Bo Edit, save, de | ook lete, export, and import | shone book by applying each func | tion buttons. | Mobile GPRS SMS |
| | | Name | Phone Number | Save | SMS |
| | | 🗌 Moxa 1 | 0987123456 | Delete | |
| | | Moxa 2 | 0987123456 | Export | Phone Reals |
| | , r | Moxa 3 | 0355133456 | Import | THORE BOOK |
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Deleting a Name and Phone Number

To delete a phonebook entry, check the check box next to the item and click **Delete**.

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| | Name Name | Phone Number | Save | SMS |
| | 🗹 Moxa 1 | 0987123456 | Delete | |
| | Moxa 2 | 0987123456 | Export | |
| | Moxa 3 | 0955133456 | | Phone Book |
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Exporting Phonebook

Select **Export** to export all phonebook to another location. Type the filename in the Filename field, and then select the directories you would like to export to (either a local site on your wireless computer or to a device). Click **OK** to finish.

| Export to File | |
|--------------------------------------|---------------------------|
| Please select the location(s) to exp | oort the phone book file. |
| | |
| Filename: | |
| Directory | |
| Export to local site (on you | r PC). |
| Directory: | |
| Export to the device. | |
| Directory: | |
| | |
| | OK Cancel |

Before exporting the phonebook, if you have modified the phonebook without saving it, a message box will pop up. Click **OK** if you would like to save it, or click **Cancel** if you do not need to save it. Note that if you do not save the modified phonebook, the current phonebook shown in the phonebook will be exported.



Importing Phonebook

Select **Import** to import the phonebook into a wireless computer, and then select whether you would like to import from a local site on your wireless computer or from a device. Click **OK** to continue.

| Import from File | |
|--|--------------------|
| Please select the location(s) to import th | e phone book file. |
| | |
| File Location | |
| Import from local site (your PC). | |
| File: | |
| O Import from the device. | |
| File: | |
| | |
| | OK Cancel |
| | |

The phonebook window will pop up. Click **OK** to import.

Configuring the Wireless Computer

Click **Configuration** on the right of the main page to configure your wireless computer's parameters.

Locking/Unlocking the Wireless Computer

If you see an orange lock icon, it means your SIM card has been locked by a PIN code. Entering the PIN code is necessary whenever the wireless computer is powered on and trying to connect to the Internet. Click the **Unlock** button to disable the PIN lock. Users do not need to enter a PIN code when the wireless computer is already powered on.

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| Storage: 3980 KB / 5120 KB 78% | |

Whenever you try to change the PIN lock status, you need to enter the PIN code to authenticate. After entering the code, click **OK** to finish.

| Authentication | |
|----------------|--------|
| PIN code: | ОК |
| •••• | Cancel |

Changing the PIN Code

Click the **Change PIN Code** icon. When the Change PIN code window appears, enter the old PIN code and the new PIN code, and then click **OK**. Remember to use the new PIN code the next time you connect to the wireless computer.

| Change PIN code | 1 | |
|-------------------|------|--------|
| PIN code: | •••• | ОК |
| New PIN code: | •••• | Cancel |
| Confirm PIN code: | •••• | |

Choosing Where to Store the SMS and Phonebook

You can either store messages in the SIM card, in the device, or in both locations. Check the desired options and then click **Apply**. Note that the phonebook can be stored in the SIM card, or in the device, but not both. After selecting the appropriate option, click **Apply**.

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| Wateles Gateway (192.168.30.44 192.168.30.44 Configuration Configurate the PIN lock and storage options. PIN Lock PIN Lock PIN Lock status: Unlock Change PIN code Storage Received SMS: Stored in SIM card. Stored in the device. Apply Phone Book: Stored in SIM card. Stored in the device. Apply Phone Book: Stored in SIM card. Apply Phone Book: Apply | Mobile © GPRS SMS SMS Phone Book © Configuration MAT Command SIM Status |
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Note that if you choose to store your SMS on both the SIM card and the device, the SMS will be stored in the device first and then in the SIM card. Currently, 25 messages can be stored in the device. For the phonebook, only 10 numbers can be stored in either the SIM card or the device.

Switching to AT Command Mode

Click the **AT Command** icon to switch to AT command mode. Enter the command in the field and then click **Send** to perform the command. You may get a reply from the wireless computer in the **Reply** field. Click **Clear** if you would like to remove the AT command and the information in the Reply field.

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| | AT Command | | SMS |
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| | | | AT Command |
| | | | SIM Status |
| | < <u> </u> | Clear | |
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Interactive AT Commands

You can use an interactive AT command, such as send a message by typing "at+cmgs=xxxxxx" (xxxxxxx refers to the phone number you would like to send a message to). In the popup window, enter the message you would like to send. Click **OK** to send the message, or click **Cancel** to abort.

| AT Command | |
|---|--------------------------------|
| An interactive AT command "at+cmgs input the text message to continue. | s=0988950264" was sent, please |
| Test Message | |
| < | OK Cancel |

We strongly recommend that you do not use interactive AT commands. Because of the asynchronous method that is used, the text may contain some unexpected data.

Rebooting the Computer

MDM Tool provides a **Reboot** function that allows users to reboot the computer. Check and right-click the computer and then select **Reboot** to continue. Note that you can only use the Reboot function on one computer at a time.



Make sure you want to reboot the computer and then click OK to finish.



Disconnecting MDM Gateway

To disconnect MDM Gateway, right-click Gateway and select Disconnect.

| MOXA Device Manager 2.1 Tools <u>V</u> iew <u>H</u> elp | - Manage Moxa Em | bedded Compute | ers Boundlessly | | | | |
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| Moxa (192, 168, 27, 149) 192 <u>Connect</u> 192 | Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
| | 192.168.27.17 | DA-660-LX | 1.1 | MontaVista 2.4.18_mvl | Intel-IXP422 | Моха | |
| Disconnect | 192.168.27.15 | IA262-CE | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
| | | | | | | | |
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How to Exit the MDM Tool

Click the Exit option under the Tools menu; you will immediately leave MDM Tool.

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| Upload/Do 1 | Process C Netw | vork S Autolaun | ch Time Setup Mo | bile | | |
| Device IP | Model Name | Firmware Ver. | OS Ver. | CPU Type | Hostname | |
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| 32.168.27.15 | IA262-CE | 1.1 | Windows CE 6.0 | EP9315 | IA262CE | |
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