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	۶r	
The installer will install Moxa Device Man To install in this folder, click "Next". To in Folder:		or click "Browse".
C:\Program Files\MOXA\		Browse
		Disk Cost
Install Moxa Device Manager for yours	self, or for anyone who uses this compu	ter:
	Cancel < Back	Next >

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

🙀 Moxa Device Manager			
Confirm Installation			
The installer is ready to install Moxa Devic	e Manager on uo	ur computer	
	so managor on yo	a compator.	
Click "Next" 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>B</u> ack	Close

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		~
C <u>h</u> ange or Remove		18070	SIZE	263.00196	^
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 - Unwisht Dadund Tarana († 2/22/2006 O	<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 .	12		
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
		Canal
	<u>Connect</u> 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.

pad Firmware Fi	ie Manager Upload/Do	Process C Net	work S Autolaur	nch Time Setup Ma		
ka (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.

1	B) 10	\$ <u>\$</u>	🐜 🐊			
Moxa (192.168.27.149)	tanager Upload/Do Device IP	Model Name	Firmware Ver.	ch Time Setup Mo 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

- 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 I Tools View Help	Embedded Computers Boundlessly		
File Upload Firmware File Manager Upload/Do		Time Setup Mobile	
Mova (192.168.27.149) 192.168.27.17 192.168.27.15			
	Model Name DA-660-LX	CPU Type Intel-MP422	_
	Firmware Version 1.1 Agent Version 2.0.0	OS Version MontaVista 2.4.18_r Hostname Moxa	nv13C
		5	
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.

s <u>View H</u> elp Gateway Manager							
Properties	File Manager Upload/Do	Process C Net	🐜 🔉		bile		
E <u>x</u> it) 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	000000000000000000000000000000000000000	Моха	
9 192.100.27.13	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(s) from	Browse
Upload file(s) to	1
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.

Iools View Help							
<u>↑</u> <u>Main</u>	🙈 🟠		🐜 🛼				
File Upload Firmware File N	1anager Upload/Do	Process C Netv	work S Autolaun	ch Time Setup Mo	bile		
🖃 😁 Moxa (192.168.27.149)	1anager Upload/Do Device IP	Model Name	work S Autolaun Firmware Ver.	ich Time Setup Mo OS Ver.	CPU Type	Hostname	
			0		СРИ Туре	Hostname Moxa	

Help

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

ools <u>View</u> <u>H</u> elp <u>O</u> nline <u>O</u> nline <u>About</u>	Guide		work S Autolaur		bile		
Moxa (192.168.27.149		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	

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 Em	bedded Comput	ers Boundlessly				
<u>T</u> ools <u>V</u> iew <u>H</u> elp								
tie Upload Firmware File	试 Manager Upl	ad/Do	Process C Net	work S Autolaur		bile		
😑 😁 Moxa (192.168.27.149)	Devi	ice IP	Model Name	Firmware Ver.	OS Ver.	CPU Type	Hostname	
192.168.27.17 192.168.27.15		20.07.47	DAREDIX	1.1	MontaVista 2.4.18_mvl	Intel-IXP422	Моха	
U DENSOLUTIO		File Uploa	d	1.1	Windows CE 6.0	EP9315	IA262CE	
		Firmware Eile Mana Process C Network S Autolauno Time Setu Reboot	ger					

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.

	a ta	tó:		1			
Upload Firmware File I	Manager Upload/Do		work S Autolaur		bile		
File Upload 68.27.149)	Device IP	Model Name	Firmware Ver.	OS Ver.	CPU Type	Hostname	
- 5 192.168.27.17 - 5 192.168.27.15	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	

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		~	0 👌	P	
My Recent Documents Desktop My Documents My Computer	My Albums My Music My Pictures My Scans MDM_tool.txt TEST.txt					
	File <u>n</u> ame:	TEST.txt			~	<u>Open</u>
My Network	Files of type:				~	Cancel
	Remote Directory:	\home				

The "File Upload" window will pop up.

e	Remote Dir		Add
ST.txt	\home	C:\Documents and Sel	Delet
	10	<u> </u>	
evice(s) Lis Selected c		Non-selected de	vice(s):
192.168.2		192.168.27.15	

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		bile		
 Moxa (192.168.27.149) 192.168.27.17 192.168.27.15 	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	
	📃 한 File Uple	bad	1.1	Windows CE 6.0	EP9315	IA262CE	
	Ele Mar Constructions Ele Mar Process Networ Networ Constructions Ele Mar Process Networ Networ Constructions Ele Mar Process Networ Constructions Ele Mar Process Networ Constructions Ele Mar Process Networ Constructions Ele Mar Networ Constructions Ele Mar Networ Constructions Constructions Constructions Constructio	Control < Setup nch tup					

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 Manager Upload/Do	Process C Net	work S Autolaur		bile		
😑 😁 Moxa (192.168. 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 addir dialog to the appointed device Firmware File: ents and Settings\Bruce\My	s.	
Device(s) List		
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.

Tile Upload Firmware File 1	Anager Upload/Do Process C Ne		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
	📋 1 File Upload	1.1 Windows CE 6.0	EP9315	IA262CE
	Firmware Upgrade			
	🚉 Eile Manager			
	2 Process Control			
	Network Setup			
	Autolaunch			
	Time Setup			

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

ile Upload Firmware File	Manager Upload/Do Process	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	
- 🐞 192.168.27.15	A My Documents	File Folder	05/08/09 19:24:33	bin		2007-05-11 07:21:41	
	My Computer	The Feider	colocies surginos	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			lib		2007-03-31 06:33:13	
	Adobe Reader 9	2 KB Shortcut	02/18/09 16:19:23	mnt		2006-02-03 20:10:27	
	CyberLink Stream	2 KB Shortcut	05/08/09 15:29:03	proc		1970-01-01 08:00:00	
	HP Photosmart Pr	1 KB Shortcut	02/02/09 18:44:42	root		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	tmp		2006-02-03 20:10:27	
	MDM 2.1 Figures	File Folder	06/29/09 14:26:33	Gusr		2006-03-21 16:53:28	
	Command Prompt	2 KB Shortcut	01/20/09 12:14:46	avar		2009-06-21 17:56:43	
	Notepad	1 KB Shortcut	05/08/09 19:24:22	🗐 5c.aif	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 Units of	1 KB Text Doc	05/08/09 19:32:04	rc no	2 KB	2009-03-17 14:31:30	
	Upload	1 KB FRM File	02/25/09 17:53:25	reply pattern.txt	7 KB	2009-03-16 14:18:44	
	Download			TEST.txt	1 KB	2009-06-22 15:35:33	
	Run			UC Finder.Ink		2009-03-17 14:32:19	
				webrelease folde	1 KB	2009-03-17 13:17:29	
	Delete			~			
	Rename						
	Change Mode) >				
	Local File		Direction Remot	e File			

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.

1 e Upload	Firmware Fil	ie Manager Upload/Do	Drocess C	Network S	Autolaunch Time S		bile			
-	192.168.27.149) 2.168.27.17	Local:					: 🛛			
	2.168.27.15	Name	Size	Туре	Modified	Name		Size	Modified	
		My Documents		File Folder	05/08/09 19:24:33	bin			2007-05-11 07:21:41	
		📃 My 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	
		Internet Explorer				lib			2007-03-31 06:33:13	
		Adobe Reader 9		Shortcut	02/18/09 16:19:23	mnt			2006-02-03 20:10:27	
		CyberLink Stream	5	Shortcut	05/08/09 15:29:03	proc			1970-01-01 08:00:00	
		HP Photosmart Pr		Shortcut	02/02/09 18:44:42	root			2009-02-27 16:20:09	
		MDM Tool		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	tmp			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		Shortcut	01/20/09 12:14:46	🚞 var			2009-06-21 17:56:43	
		Notepad		Shortcut	05/08/09 19:24:22	🗟 5c.gif			2009-04-27 16:23:46	
		🦉 Paint		Shortcut	06/15/09 15:04:06	MDM.jp	g	22 KB	2009-03-17 13:17:50	
		TEST.txt		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 p	attern.txt	7 KB	2009-03-16 14:18:44	16.1
						🗐 TEST.	Upload	and the second second	2009-06-22 15:35:33	
						UC Fir	Download	1 KB	2009-03-17 14:32:19	
						📳 webre -	Run	1 KB	2009-03-17 13:17:29	
		K) ()		Delete Rename	_		
		Local File			Direction Remo	ote File -	Change Mode	-		
						Ļ				

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							
1	anager Upload/Do Proc	ss C Network S	Autolaunch Time Set	up Mobile			
🖃 🤭 Moxa (192.168.27.149)	Local:		~	Remote: 👔			~
192.168.27.17 192.168.27.15	Name	Size Type	Modified	Name	Size	Modified	
	My Documents My Computer My Network Places	File Folder	05/08/09 19:24:33	i bin dev etc		2007-05-11 07:21:41 2006-07-12 16:46:09 1970-01-01 08:02:41	
	Recycle Bin Internet Explorer			home ib		2009-04-27 16:59:44 2007-03-31 06:33:13	
	Adobe Reader 9	2 KB Shortcut	02/18/09 16:19:23	iiii iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		2007-03-31 06:33:13	
	CyberLink Stream	2 KB Shortcut 1 KB Shortcut	05/08/09 15:29:03 02/02/09 18:44:42	proc root		1970-01-01 08:00:00 2009-02-27 16:20:09	
	MDM Tool	2 KB Shortcut	06/29/09 14:30:57	sbin		2009-02-27 18:20:09	
	Nero StartSmart	1 KB Shortcut	11/17/08 09:45:26	tmp		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 1 KB Shortcut	01/20/09 12:14:46 05/08/09 19:24:22	🗀 var 📾 5c.gif	18 KB	2009-06-21 17:56:43 2009-04-27 16:23:46	
	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	
				🗊 TEST.txt	1 KB	2009-06-22 15:35:33	
	Refres	h		UC Finder.Ink	1 KB	2009-03-17 14:32:19	
	Add Fo			📄 webrelease folde	1 KB	2009-03-17 13:17:29	
	Local File	- 101	Direction Remote	- Eilo	1		
	Local File		Direction Remote	01#0			
			<u>-</u>	5torage: 10572 KB / 26624 KE	1	40%	

ile Upload Firmware File	Ca the Manager Upload/Do	🔅 ess C Ne	twork S	Autolaunch Time Se	etup Mobile		
Moxa (192.168.27.149)	Local:			~	Remote: 👔		
192.168.27.17 192.168.27.15	Name	Size	Туре	Modified	Name	Size	Modified
¥192.100.27.13	My Documents	F	ile Folder	05/08/09 19:24:33	bin		2007-05-11 07:21:41
	🖳 My 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
	🥭 Internet Explorer				ib 🔁		2007-03-31 06:33:13
	Adobe Reader 9	2 KB 5	Shortcut	02/18/09 16:19:23	mnt		2006-02-03 20:10:27
	🚱 CyberLink Stream	2 KB 5	Shortcut	05/08/09 15:29:03	proc		1970-01-01 08:00:00
	MP Photosmart Pr	1 KB 5	Shortcut	02/02/09 18:44:42	Coot		2009-02-27 16:20:09
	MDM Tool	2 KB 5	Shortcut	06/29/09 14:30:57	🚞 sbin		2004-11-03 19:02:39
	Nero StartSmart	1 KB 5	Shortcut	11/17/08 09:45:26	🚞 tmp		2006-02-03 20:10:27
	MDM_2.1_Figures	F	ile Folder	06/29/09 14:26:33	Cousr		2006-03-21 16:53:28
	Command Prompt	2 KB 5	Shortcut	01/20/09 12:14:46	ar		2009-06-21 17:56:43
	📕 Notepad	1 KB 5	ihortcut	05/08/09 19:24:22	🖬 Sc.gif	18 KB	2009-04-27 16:23:46
	🦉 Paint	1 KB 5	ihortcut	06/15/09 15:04:06	🖬 MDM.jpg	22 KB	2009-03-17 13:17:50
	TEST.txt	1 KB T	ext Doc	05/08/09 19:32:04	rc .	2 KB	2009-03-17 14:31:30
	🔲 UC-7408.frm	1 KB F	RM 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
					UC Finder.Ink	1 KB	2009-03-17 14:32:19
					🗐 webrelease folde	1 KB	2009-03-17 13:17:29
	<			>	Refresh		
	Local File				Add Folder		

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.

<u>T</u> ools <u>V</u> iew <u>H</u> elp				
1 🗟 🛍 😫	🏟 🏪 🚴	9		
Localhost (192.168.30.30)	Upload List			Clear
192.168.30.93	Device	IP Local File	Remote File	Progress
 ● Trial (192.168.27.149) ● Modia (192.168.30.49) 	192.168.30	.81 D:\Dev\00 _Release\00 Testing\06_1M	I. /home/Test/06_1M.dll	100 %
	192.168.30	.95 D:\Dev\00 _Release\01 Firmware\CE\	J firmware	69 %
	9 192.168.30	.93 D:\Dev\00 _Release\00 Testing\06_1 M	l. /home/06_1M.7z	76 %
	9 192.168.30	.93 D:\Dev\00 _Release\00 Testing\06_1M	I. /home/06_1M.dll	13 %
	9 192.168.30	.93 D:\Dev\00 _Release\00 Testing\2009_	C /home/2009_0302 MDM2.0_SW E-T	36 %
	192.168.30	.93 D:\Dev\00 _Release\00 Testing\Test\rd	er /reply pattern.txt	100 %
	Download Lis	st		Clear
	Download Lis	17. 16.	Remote File	Clear Progress
		P Local File		
	Device	P Local File .81 D:\Dev\000_Release\000 Testing\Test\2	0 /home/2009_0302 MDM2.0_SW E-T	Progress
	Device	Local File .81 D:\Dev\00_Release\00 Testing\Test\02 .93 D:\Dev\00_Release\00 Testing\Test\0	0 /home/2009_0302 MDM2.0_SW E-T 6 /home/Test/06_1M.7z	Progress 100 %
	Device	Local File D1Dev100_Release100 Testing1Test12 1.93 D1Dev100_Release100 Testing1Test10 1.93 D1Dev100_Release100 Testing1Test10	0 /home/2009_0302 MDM2.0_SW E-T 6 /home/Test/06_1M.7z 6 /home/Test/06_1M.dll	Progress 100 % 66 %
	Device 192.168.30 192.168.30 192.168.30 192.168.30	Local File 0.1Dev100_Release\00 Testing\Test\0 1.93 D\Dev100_Release\00 Testing\Test\0 1.93 D\Dev100_Release\00 Testing\Test\0	0 /home/2009_0302 MDM2.0_SW E-T 6 /home/Test/06_1M.7z 6 /home/Test/06_1M.dll	Progress 100 % 66 % 0 %
	Device 192.168.30 192.168.30 192.168.30 192.168.30	Local File 0.1Dev100_Release\00 Testing\Test\0 1.93 D\Dev100_Release\00 Testing\Test\0 1.93 D\Dev100_Release\00 Testing\Test\0	0 /home/2009_0302 MDM2.0_SW E-T 6 /home/Test/06_1M.7z 6 /home/Test/06_1M.dll	Progress 100 % 66 % 0 %
	Device 192.168.30 192.168.30 192.168.30 192.168.30	Local File 0.1Dev100_Release\00 Testing\Test\0 1.93 D\Dev100_Release\00 Testing\Test\0 1.93 D\Dev100_Release\00 Testing\Test\0	0 /home/2009_0302 MDM2.0_SW E-T 6 /home/Test/06_1M.7z 6 /home/Test/06_1M.dll	Progress 100 % 66 % 0 %
	Device 192.168.30 192.168.30 192.168.30 192.168.30	Local File 0.1Dev100_Release\00 Testing\Test\0 1.93 D\Dev100_Release\00 Testing\Test\0 1.93 D\Dev100_Release\00 Testing\Test\0	0 /home/2009_0302 MDM2.0_SW E-T 6 /home/Test/06_1M.7z 6 /home/Test/06_1M.dll	Progress 100 % 66 % 0 %

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

ols <u>Y</u> iew <u>H</u> elp	¢ 🔢 💊 '	0						
Localhost (192.168.30.30)	Upload List							
2192.168.30.81 192.168.30.95	Device IP	Local File	Remote File	Progress				
- 👼 192.168.30.83	✓ 192.168.30.8	D:\Dev\00 _Release\00 Testing\06_1M	/home/Test/06_1M.dll	100 %				
) Trial (192.168.27.149) Modia (192.168.30.49)	A 192.168.30.9	D:\Dev\00 _Release\01 Firmware\CE\U	firmware	69 %				
Moula (192.108.50.49)	0 192.168.30.9	D:\Dev\00 _Release\00 Testing\06_1M.	/home/06_1M.7z	76 %				
	9 192.168.30.9	33 D:\Dev\00 _Release\00 Testing\06_1M.	/home/06_1M.dll	13 %				
	0 192.168.30.9	03 D:1Dev100 _Release100 Testing12009_0	/home/2009_0302 MDM2.0_SW E-T	36 %				
	× 192.168.30.9	3 D:\Dev\00 _Release\00 Testing\Test\re	/reply pattern.bd	100 %				
				Clea				
	Download List	Local Filo	Pomoto Filo					
	Device IP		Remote File	Progress				
	Device IP	D:\Dev\00_Release\00 Testing\Test\20	/home/2009_0302 MDM2.0_SW E-T	Progress 100 %				
	Device IP	31 D.\Dev\00 _Release\00 Testing\Test\20 33 D.\Dev\00 _Release\00 Testing\Test\06	/home/2009_0302 MDM2.0_SW E-T	Progress				

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
$\boldsymbol{\varkappa}$	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	2.1 - Manage Moxa Em	bedded Comput	ers Boundlessly				
<u>T</u> ools <u>V</u> iew <u>H</u> elp							
tie Upload Firmware Fil	e Manager Upload/Do	Process C Net	🐜 🔉		bile		
🖃 😁 Moxa (192.168.27.149)	Device IP	Process Con Moder Name	rirmware 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	
	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.

<u>T</u> ools <u>V</u> iew <u>H</u> elp				
	🗟 🟠 🔯 Aanager Upload/Do Process (
Moxa (192.168.27.149)	ID	Process	Kill	
192.168.27.17 192.168.27.15	📮 192.168.27.17 🛛 🕅	1emory: 36296 KB / 127272 KB		
-	44	/usr/sbin/inetd	48	
	50	/usr/sbin/httpd	48	
	60	/usr/sbin/httpd	4	
	61	/usr/sbin/httpd	4	
	62	/usr/sbin/httpd	4	
	63	/usr/sbin/httpd	*	
	64	/usr/sbin/httpd	4	
	78	/sbin/dhcpcd-bin	4	
	92	/sbin/portmap	4	
	99	/bin/sh	*	
	101	/bin/sh	**	
	112	./mdm2	4	
	115	/usr/sbin/rpc.statd	*	
	127	/usr/sbin/snmpd	*	
	128	/usr/sbin/rpc.nfsd	48	
	130	/usr/sbin/rpc.mountd	48	
	137	/usr/sbin/sshd	48	
	143	/bin/lcmshowinfo	**	
	144	/bin/reportip	48	
	155	/sbin/getty	4	
	0.011	Storage: 10572 KB / 2	۵	

Click **OK** to kill the program.

ools ⊻iew <u>H</u> elp	12100			
ALL ALL AND AL	试 🟠 t Manager Upload/Do Proc	🔯 🏭 🔊 🔞 📔 ress C Network S Autolaunch Time Setup Mobile		
Moxa (192.168.27.149)	ID	Process	Kill	
192.168.27.17 192.168.27.15	I92.168.27.17	Memory: 36296 KB / 127272 KB		
	44	/usr/sbin/inetd	4 8	
	50	/usr/sbin/httpd	4	
	60	/usr/sbin/httpd		
	61	/usr/sbin/httpd	4	
	62	/usr/sbin/httpd	*	
	63	Kill 🛛	*	
	64		**	
	78	Kill the process?	48	
	92	OK Cancel	**	
	99	Caliber	48	
	101	/bin/sh	4	
	112	Jmdm2	48	
	115	/usr/sbin/rpc.statd	48	
	127	/usr/sbin/snmpd	*	
	128	/usr/sbin/rpc.nfsd	48	
	130	/usr/sbin/rpc.mountd	48	
	137	/usr/sbin/sshd	48	
	143	/bin/lcmshowinfo	48	
	144	/bin/reportip		
	155	/sbin/getty	4	
dy	4400	cloon Storage: 10572 KB / 266	۵	

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 - Mana	ige Moxa Em	bedded Compute	ers Boundlessly				
<u>T</u> ools <u>V</u> iew <u>H</u> elp								
10 File Upload Firmware	试 File Manager	Dpload/Do	Process C Netv	vork S Autolaun		bile		
🖃 😁 Moxa (192.168.27.149) D	evice IP	Model Name	Firmware Ver.	OS Ver.	CPU Type	Hostname	
192.168.27.17 192.168.27.15	19:	7 168 27 17	D4-660-LV	1.1	MontaVista 2.4.18_mvl	Intel-IXP422	Моха	
	19:	💼 🖬 File L	pload	1.1	Windows CE 6.0	EP9315	IA262CE	
		Eile M Eile M Proce	vare Upgrade lanager sss Control ork: Setup aunch Setup ot					

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:		
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		k the fixed IP button	
Interface Name:	eth0	~	
ODHCP			
• Fixed IP	- ↓		i I
IP Address:	192 . 168	. 30 . 70	
Subnet Mask:	255 , 255	. 255 . 0	
Default Gateway:		n - 1	
MAC Address:	00:90:e8:0f:2	2b:0a	
			2
	νκ 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 inte	erface on	
Interface Name:			~	
DNS Server:				
Primary DNS:	168 . 95	. 1	. 1	
Secondary DNS:		- C D		
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.

Iools View Help Tools View Help File Upload Firmware File	🗟 🛅 🤯 Manager Upload/Do	Network S Autolaur		bile		
😁 Moxa (192.168.27.149)	Device IP Mod	el Name Firmware Ver.	OS Ver.	CPU Type	Hostname	
	102160 2717 DA 66	אייג 1.1	MontaVista 2.4.18_mvl	Intel-IXP422	Моха	
	File Upload	1.1	Windows CE 6.0	EP9315	IA262CE	
	Ele Manager Ele Manager Control Network Setup Autolaunch					
	Time Setup					
	Reboot	-				

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	irguments.
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 - Manage Moxa Em	bedded Compute	ers Boundlessly	5			
autoria autoria	Manager Upload/Do	Process C Netv	vork S Autolaur	ch Time Setup Mc	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	D&-660-1 X	1.1	MontaVista 2.4.18_mvl	Intel-IXP422	Моха	
	File Upk	bad 📃	1.1	Windows CE 6.0	EP9315	IA262CE	
	Network	Control <setup< th=""><th></th><th></th><th></th><th></th><th></th></setup<>					
	Autolau						
	Reboot						
Set 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 , June 2 🗸
10 NOXA 2	3:48:49 PM
9 8 4 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.

Jook Yew Help File Upload Franzyvae U., File Manager Upload/Do., File Upload Franzyvae U., File Upload Franzyvae U., File Manager Upload/Do., File Upload Franzyvae U., File Upload Franzyvae U., <th>🌆 MOXA Device Manager 2.1 - Manag</th> <th>e Moxa Embedded Computers Boundlessly</th> <th></th>	🌆 MOXA Device Manager 2.1 - Manag	e Moxa Embedded Computers Boundlessly	
File Upload File Manager Upload/Do Process Co Network Se Attolasmach Time Setup Mobile Image: Upload Filmware U File Manager Upload/Do Process Co Network Se Attolasmach Time Setup Mobile Image: Upload Filmware U File Manager Upload/Do Process Co Network Se Attolasmach Time Setup Mobile Image: Upload Stratus Image: Upload Stratu	<u>T</u> ools <u>V</u> iew <u>H</u> elp		
SIM Status SIM Status The SIM card is locked by PIN code. Please input the PIN code: Note: Please make sure the PIN code is correct otherwise the SIM card	File Upload Firmware U File Manager		
	192.168.30.88 192.168.30.81	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	ATA. AT Command
Ready Storage: 4044 KB / 5120 KB 79%		Storage: 4044 KB / 5120 KB 79%	

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		
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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	GPRS Connection		Mobile
192.168.30.199	Click "Connect" to get GPRS connection automatically.		(A)
			GPR5
	Connection O Disconnected	Connect	SMS
	Band: GSM 900 MHz + GSM 1800 MHz	all and an	
	Operator Name: Chunghwa Teleco APN: internet		Phone Book
	Reconnect stopped		Configuration
	Start auto-reconnection with time interval (sec): 10 Stop the auto-reconnection.		AT:_
		Apply	AT Command
	- Diagnosis		STM Chabus
			SIM Status
		Diagnose	
<			
	Storage: 3976 KB / 5120 K	(B 78% 💷	
The MOXA Device Manager 2.1			
MOXA Device Manager 2.1	- Manage Moxa Embedded Computers Boundlessly		
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Iools View Help File Upload Firmware File M. Winness Gateway (192.168.30 192.168.30.84	- 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 Connected	Disonnect	Mobile GPR5
Iools View Help File Upload Firmware File M. Winness Gateway (192.168.30 192.168.30.84	Manage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Anage Upload/Do Process C Network S Autolaunch Time Setup Mobile GPRS Connection Connection Connected Band: GSM 900 MHz + GSM 1800 MHz		Mobile GPRS SMS SMS
Iools View Help File Upload Firmware File M. Winness Gateway (192.168.30 192.168.30.84	- 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 Connected		Mabile
Iools View Help File Upload Firmware File M. Winness Gateway (192.168.30 192.168.30.84	Manage Moxa Embedded Computers Boundlessly 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		Mobile GPR5 GPR5 SMS SMS Phone Book
Iools View Help File Upload Firmware File M. Winness Gateway (192.168.30 192.168.30.84	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. Connected Band: GSM 900 MHz + GSM 1800 MHz Operator Name: Chunghwa Teleco APN: intermet Reconnect stopped O Start auto-reconnection with time interval (sec): 10		Mabile Mabile GPRS SMS SMS Phone Book Configuration
Iools View Help File Upload Firmware File M. Winness Gateway (192.168.30 192.168.30.84	Manage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Anage Moxa Embedded Computers Boundlessly Mobile GPRS Connection Connected Band: GSM 900 MHz + GSM 1800 MHz Operator Name: Chunghwa Teleco APN: intermet Reconnect stopped		Mobile GPR5 GPR5 SMS SMS Phone Book
Iools View Help File Upload Firmware File M. Winness Gateway (192.168.30 192.168.30.84	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. Connected Band: GSM 900 MHz + GSM 1800 MHz Operator Name: Chunghwa Teleco APN: Internet Reconnect stopped Start auto-reconnection.	Disonnect	Mubile Mubile GPRS GPRS SMS Phone Book V Configuration AT Commend
Iools View Help File Upload Firmware File M. Winness Gateway (192.168.30 192.168.30.84	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. Connected Band: GSM 900 MHz + GSM 1800 MHz Operator Name: Chunghwa Teleco APN: intermet Reconnect stopped O Start auto-reconnection with time interval (sec): 10	Disonnect	Mobile Mobile GPRS GPRS SMS Fhome Book Configuration Configuration AT Command
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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.

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Wireless (192.168.30.30) 192.168.30.81	0140 1 1			Mobile
	SMS_Inbox			R
	Display incoming SMS me	essages. Manage messages by deleti	ng 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
				A CONTRACT
				Configuration
				and the second se
				AT:_
				AT Command
				39
				SIM Status
		Re	fresh Delete Export	
	Inbox 📝 Edit 🔜 Template			
Ready		Storage	e: 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	oxa Embedded Cor	nputers Boundlessly		
<u>T</u> ools <u>V</u> iew <u>H</u> elp					
Tile Upload Firmware Fi	File Manager Upload		Network S Autolaunch Time Setup	Mobile	
Over the second seco	-SMS_ Display	incoming SMS me Sender	ssages. Manage messages by del Message	Date/Time	Mobile GPRS SMS
		886988195030	123456890 123456890	09/05/26/16:03:58 09/05/26/16:04:26	
	⊿ +	886988693142	60A8597D	09/06/30/21:47:01	Phone Book
			_	Refresh Delete Export	Configuration TAC AT Command SIM Status
Ready		🖗 Edit 🔜 Template		age: 4044 KB / 5120 KB 79%	

Click **OK** to finish.



Exporting Messages

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<u>T</u> ools <u>V</u> iew <u>H</u> elp	······································			
1 Sile Upload Firmware File Mana	iger Upload/Do	Network S Autolaunch Time Setup	Mobile	
O Wireless (192.168.30.30) 192.168.30.81	SMS_Inbox			Mobile
	Display incoming SMS me	ssages. Manage messages by deleti	ng and/or exporting.	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
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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.

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- Sec. 192. 168.30.199	IMS_Inbox Display incoming SMS me	ssages. Manage messages by deletin	g and/or exporting.	Mobile GPR5
	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
		Ref	resh Delete Export	Configuration
< > > ×	nbox 📝 Edit 🔜 Template		: 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	ок

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		<u>.</u>
60A8597D		
		~
	Reply Delete	ОК

Replying a Message

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

SMS		×
Sender	+886988693142	
Date/Time	09/06/30/21:47:01	
Message		
60A8597D		
	<u>R</u> eply <u>D</u> elete 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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<u>I</u> ools <u>V</u> iew <u>H</u> elp					
10 File Upload Firmware U File Ma		Process Co	Autolaunch Time Setup	Mobile	
😑 😁 Wireless Gateway (192.168.30.					Mobile
- 5 192.168.30.88 - 5 192.168.30.81	SMS_Edit				8
	Edit SMS mess	age on message windo	w or select from the templ	late and then send out the	
	message (Eng	lish only).			GPRS
		Phone Number:			SMS
		+886988195030		Phone Book	SMS
		Message:		Counter: 140	Phone Book
					N
					Configuration
					AT:_
					AT Command
					3
					SIM Status
					STPI DBR05
			Templa	ate 🔻 Send	
< > >	🛃 Inbox 📝 Edit	🔜 Template 🔯 History			
Ready			Storage	: 4044 KB / 5120 KB 7	9%

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.

Name	Phone Number
self	0988713219
phonebook2	12456789
test3	+23456789

Editing the Template

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

🏂 MOXA Device Manager 2.1 -	Manage Moxa Embe	ided Computers Boundles	sly			
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192.168.30.81	SMS_Edit					6
	Edit SMS mess message (Eng	age on message windov lish only).	w or select from th	he template and the	en send out the	GPRS
	1000 AN 100	Phone Number:				SWS
		+886988195030		Phon	e Book	SMS
		Message:		Counte	er: 140	Phone Book
					-	J. J. W
						N
						Configuration
						AT:_
						AT Command
						3
					~	SIM Status
	5		[Template 🔫	Send	
			ſ	<u>A</u> dd to Template		
				<u>R</u> ead from Template		
< >	🛃 Inbox 📝 Edit	🛃 Template 🔯 History				_
Ready				Storage: 4044 KB / 5	5120 KB 79%	

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	
*	
	ancel

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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A	ager Upload/Do Process Co Metwork Se Autolaunch Time Setup Mobile	
 ♥ Wireles Ostevey (192.168.30, 192.168.30.88 192.168.30.81 	SMS_Edit Edit SMS message on message window or select from the template and then send out the message (English only). Phone Number: +886988195030 Phone Book Message: Counter: 140 Message: Counter: 140 Template Send Message	Mobile GPRS GPRS SMS SMS Phone Book Configuration AT Command SIM Status
	式 Inbox 📝 Edit 🗒 Template 😡 History	
	Storage: 4044 KB / 5120 KB	79%

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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File Upload File Manager Upload/Do Process C Network S Autolaunch Time Setup Mobile Wirzless Gatewayr (1922-168.30.49 192.168.30.199 ShS_History Diploy and/or delete historic SMS messages. Sender Message Date/Time GPS Sender Sender Ls406 D9/06/26.16.03.07 Sm Sm Sender DbBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	<u>T</u> ools <u>V</u> iew <u>H</u> elp					
192.168.30.84 192.168.30.199 SMS_History Display and/or delete historic SMS messages.		anager Upload/Do	XXX Process C	Setwork S Autolaunch Time Setup	le	
Sender Message Date/Time Image: Sender Message Date/Time Image: Sender V406 09/06/26,16:03:07 Image: Sender BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	192.168.30.84	SMS_Hist	Conta r e	ric SMS messages.		GPR5
			Sender	Message	Date/Time	
+886988713219 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		✓ +88698	8713220	L× 406	09/06/26,16:03:07	SMS
		-+88698	8713219	868888888888888888888888888888888888888	09/06/26,15:58:08	
Configuration AT Command I SIM Status		+88698	8713219	000000000000000000000000000000000000000	09/06/26,15:58:20	Phone Book
AT Command SIM Status		⊘ +88698	8713219		09/06/26,15:58:43	ST.
Delete					Delate	AT Command
					Delete	_
	Keady	Inbox 📝 Edit	Template		B / 2750 KB 0%	

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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Owned State OwnedState Owned State Owned State Owned State Owned Stat	Phone Book Edit, save, delete,	export, and import p	hone book by applying each fu		Mobile GPRS GMS
		Name Moxa 1	Phone Number	Save	SMS
		vioxa i vioxa 2	0987134567	Delete	
		Moxa 2	0955133456	Export	Phone Book
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	<u> </u>				AT:\
			-		
			1		<u>.</u>
				-	SIM Status
Ready			Storage: 403	6 KB / 5120 KB 79% 💽	

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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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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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 e	port the phone book file.
Filename:	
Directory	
Export to local site (on yo	ur 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	1
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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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.

)	
••••	ОК
••••	Cancel
••••	
	••••

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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Storage: 3980 KB / 5120 KB 78%	

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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	Reply	Send	
			Phone Book
			Configuration
			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+cmg: 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.

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loxa (192-168-27-149		Device IP	Model Name	Firmware Ver.	OS Ver.	CPU Type	Hostname
192 Conne 192	ect Z	192.168.27.17	DA-660-LX	1.1	MontaVista 2.4.18_mvl	Intel-IXP422	Моха
Discor	nect	192.168.27.15	IA262-CE	1.1	Windows CE 6.0	EP9315	IA262CE

How to Exit the MDM Tool

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

<u>G</u> ateway Manager Properties	File Manager Upload/Do	Process C Netw	vork S Autolaur		bile		
Exit	Device IP	Model Name	Firmware Ver.	OS Ver.	CPU Type	Hostname	
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