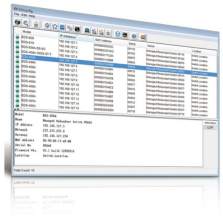

MOXA CLI Configuration Tool User Manual

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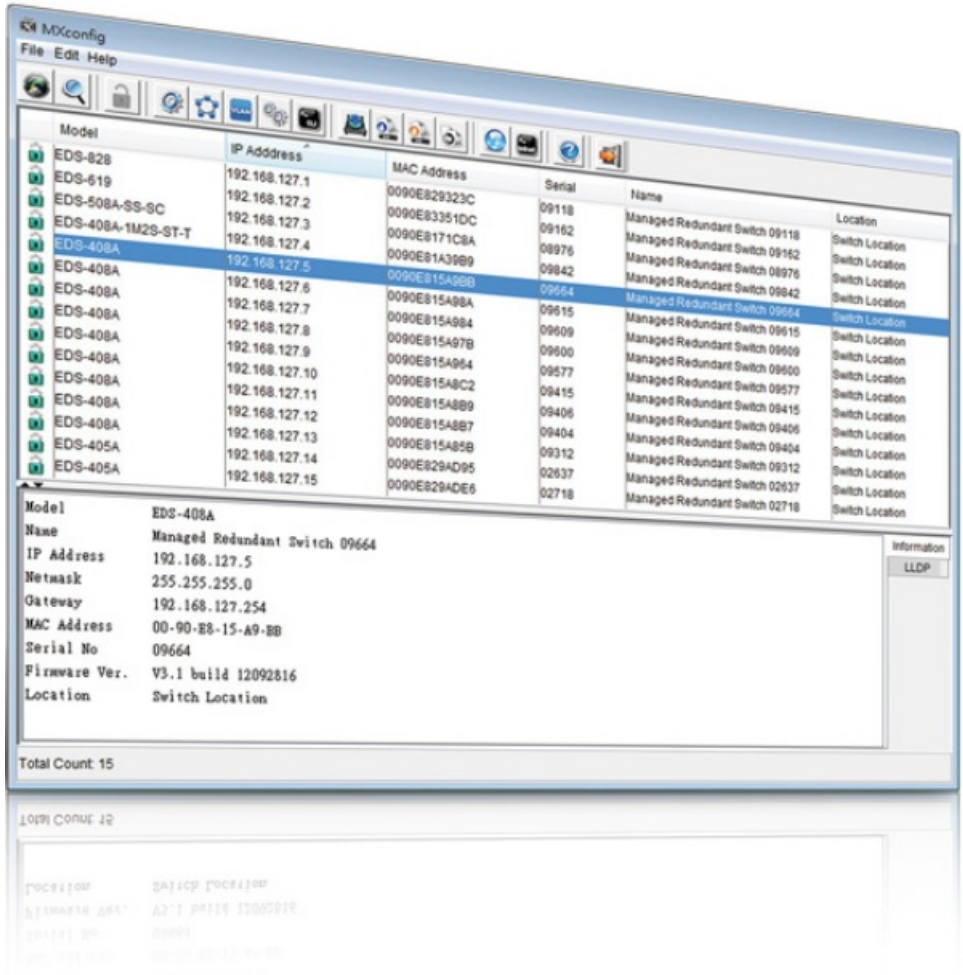
MOXA CLI Configuration Tool



The Moxa CLI Configuration Tool (MCC_Tool) is a command line tool that provides the following functions to manage field devices. Management tasks can be performed according to a desired scale (1 for single device or 1 for multiple devices) and across different subnet networks.

System Requirements

The supported platforms for MCC_Tool are Windows and Linux. The following models and firmware versions are supported:

Product Series / Model	Supporting Firmware
NPort 5100A Series	All versions
NPort 5110	All versions
NPort 5130	All versions
NPort 5150	All versions
NPort P5150A Series	Firmware v2.0 and later versions
NPort 5200A Series	Firmware v3.0 and later versions
NPort 5200 Series	Firmware v2.0 and later versions
NPort 5400 Series	Firmware v2.1 and later versions
NPort 5600 Series	Firmware v4.2 and later versions
NPort 5600-DT Series	Firmware v2.2 and later versions

Product Series / Model	Supporting Firmware
NPort 5600-DTL Series (EOL)	Firmware v1.2 and later versions
NPort S9450I Series	Firmware v1.2 and later versions
NPort S9650I Series	Firmware v2.1 and later versions
NPort IA5100A Models	Firmware v2.2 and later versions
NPort IA5200A Models	Firmware v2.3 and later versions
NPort IA5400A Models	Firmware v2.3 and later versions
NPort IA5000 Series	All versions
NPort 5000AI-M12 Series	All versions
NPort 6100/6200 Series	Firmware v2.4 and later versions
NPort 6400/6600 Series	All versions
MGate 5134 Series	All versions
MGate 5135/5435 Series	All versions
MGate 5217 Series	All versions
MGate MB3180/MB3280/MB3480 Series	Firmware v2.0 and later versions
MGate MB3170/MB3270 Series	Firmware v2.1 and later versions
MGate MB3660 Series	Firmware v2.1 and later versions
MGate 5101-PBM-MN Series	All versions
MGate 5103 Series	All versions
MGate 5105-MB-EIP Series	Firmware v2.1 and later versions
MGate 5109 Series	Firmware v2.2 and later versions
MGate 5111 Series	Firmware v2.3 and later versions
MGate 5114 Series	All versions
MGate 5118 Series	All versions
MGate 5102-PBM-PN Series	All versions
MGate W5108/W5208 Series (EOL)	Firmware v2.1 and later versions
ioLogik E1200 Series	Firmware v2.4 and later versions
ioThinx 4500 Series	All versions

Installing MCC_Tool on Windows

To install MCC_Tool on Windows:

1. Download MCC_Tool for Windows from the following URL: **https://www.moxa.com/support/download.aspx?**

type=support&id=15923.

2. Unzip the downloaded folder and execute the .exe file. The setup wizard will pop up to direct you to the next steps.
3. Select the destination location of where MCC_Tool should be installed.
4. Select the Start Menu Folder to create the program's shortcuts.
5. Select Additional Tasks if any and click Next.
6. Confirm previous selections and prepare to install.
7. Complete setup and check Launch mcc_tool if you want to use MCC_Tool after exiting the setup wizard.

Installing MCC_Tool on Linux

To install MCC_Tool on Linux:

1. Download MCC_Tool for Linux from the following URLs: https://www.moxa.com/support/download.aspx?type=support&id=15925 (Linux x86) and https://www.moxa.com/support/download.aspx?type=support&id=15924 (Linux x64). Versions for x86 and x64 OS are available.

Please refer to the user manual for detailed instructions on how to use MCC_Tool.

Version 2.1, March 2023
www.moxa.com/products

Moxa CLI Configuration Tool User Manual

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Technical Support Contact Information

www.moxa.com/support

Introduction

Moxa CLI Configuration Tool (MCC_Tool) is a command line tool that provides the following functions to manage field devices.

- Report firmware versions
- Upgrade firmware
- Import/export configuration files
- Password changes

Management tasks can be performed according to a desired scale (1 for single device or 1 for multiple devices) and across different subnet networks.

System Requirements

Supported Platforms

- Windows 7 and later versions.
- Linux kernel 2.6 and later versions.

Supported Models

Product Series / Model		Supporting Firmware
NPort	5100A Series	Firmware v1.4 and later versions
NPort	5110	Firmware v2.0.62 and later versions
NPort	5130	Firmware v3.9 and later versions
NPort	5150	Firmware v3.9 and later versions
NPort	P5150A Series	Firmware v1.4 and later versions
NPort	5200A Series	Firmware v1.4 and later versions
NPort	5200 Series	Firmware v2.12 and later versions
NPort	5400 Series	Firmware v3.13 and later versions
NPort	5600 Series	Firmware v3.9 and later versions

NPort	5600-DT Series	Firmware v2.6 and later versions
NPort	5600-DTL Series (EOL)	Firmware v1.5 and later versions
NPort	S9450I Series	Firmware v1.1 and later versions
NPort	S9650I Series	Firmware v1.1 and later versions
NPort	IA5100A Models	Firmware v1.3 and later versions
NPort	IA5200A Models	Firmware v1.3 and later versions
NPort	IA5400A Models	Firmware v1.4 and later versions
NPort	IA5000 Series	Firmware v1.7 and later versions
NPort	5000AI-M12 Series	Firmware v1.3 and later versions
NPort	6100/6200 Series	Firmware v1.13 and later versions
NPort	6400/6600 Series	Firmware v1.13 and later versions

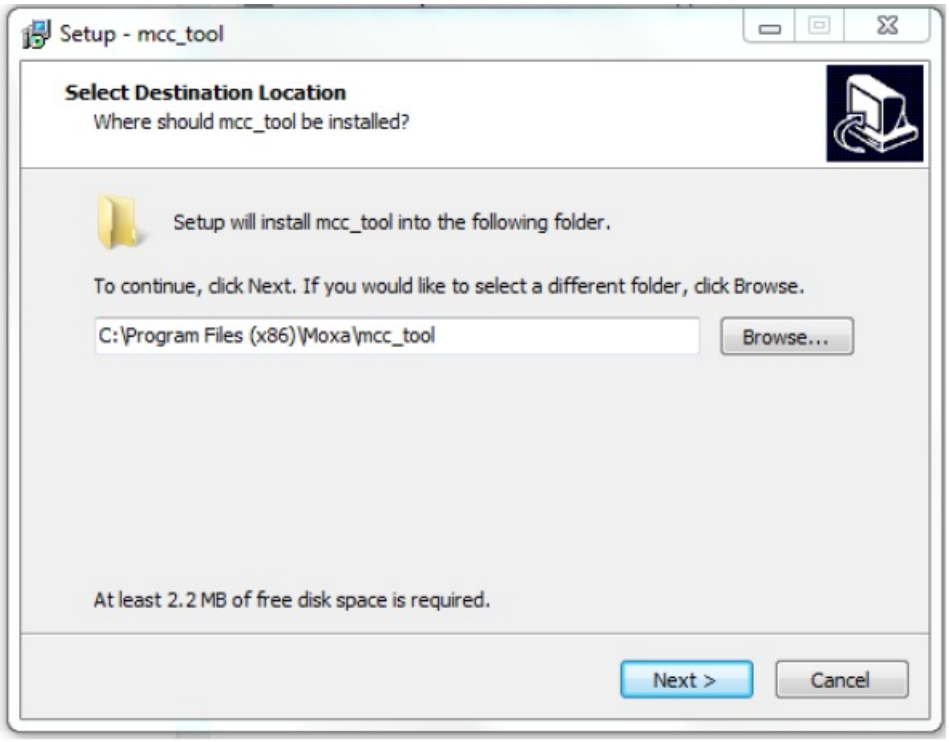
Product Series / Model		Supporting Firmware
MGate	5134 Series	All versions
MGate	5135/5435 Series	All versions
MGate	5217 Series	All versions
MGate	MB3180/MB3280/MB3480 Series	Firmware v2.0 and later versions
MGate	MB3170/MB3270 Series	Firmware v3.0 and later versions
MGate	MB3660 Series	Firmware v2.0 and later versions
MGate	5101-PBM-MN Series	Firmware v2.1 and later versions
MGate	5103 Series	Firmware v2.1 and later versions
MGate	5105-MB-EIP Series	Firmware v4.2 and later versions
MGate	5109 Series	Firmware v2.2 and later versions
MGate	5111 Series	Firmware v1.2 and later versions
MGate	5114 Series	Firmware v1.2 and later versions
MGate	5118 Series	Firmware v2.1 and later versions
MGate	5102-PBM-PN Series	Firmware v2.2 and later versions
MGate	W5108/W5208 Series (EOL)	Firmware v2.3 and later versions

Product Series / Model	Supporting Firmware
ioLogik E1200 Series	Firmware v2.4 and later versions
ioThinx 4500 Series	All versions

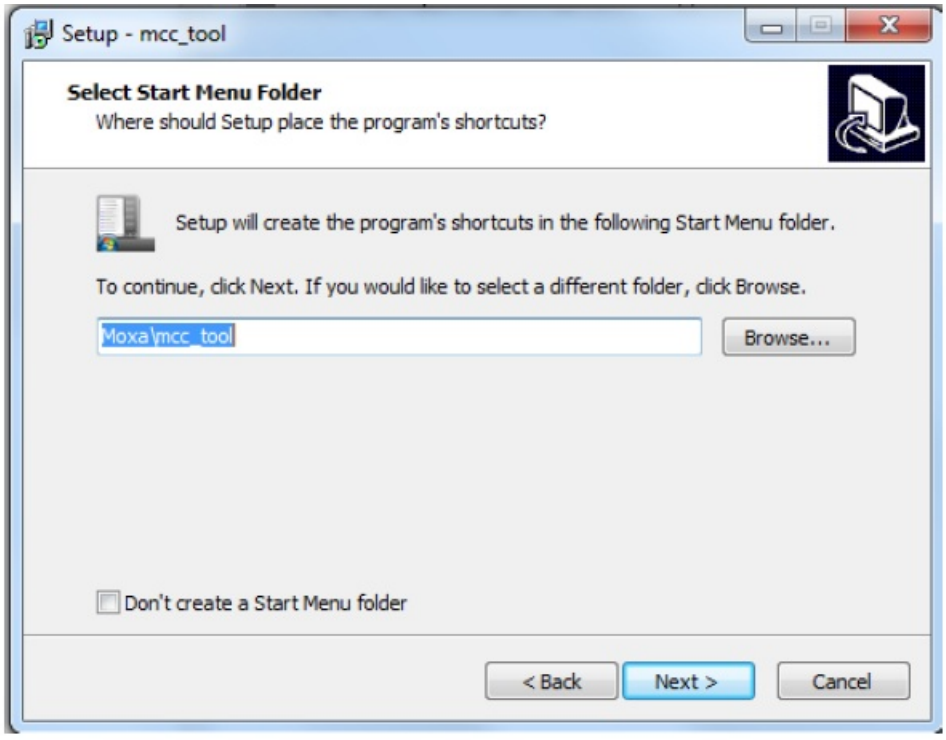
Installing MCC_Tool on Windows

- Step 1: Download MCC_Tool for Windows on URL: **https://www.moxa.com/support/download.aspx?type=support&id=15923**. Unzip the folder and execute the .exe file. The setup wizard will pop up to direct you to the next steps.

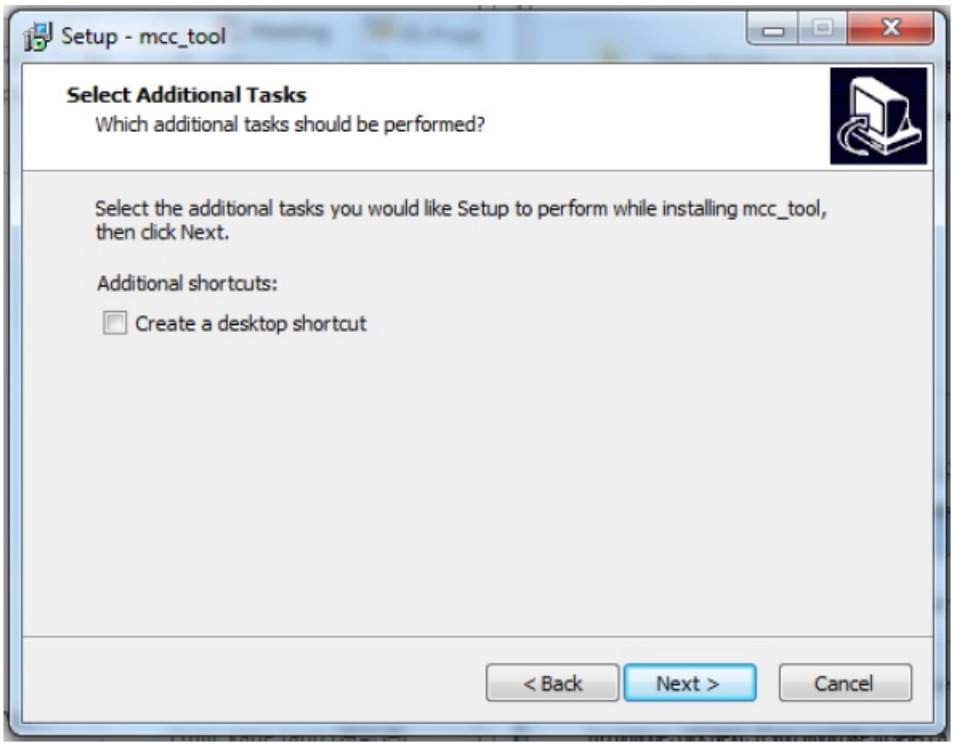
- Step 2: Select destination location of where MCC_Tool should be installed.



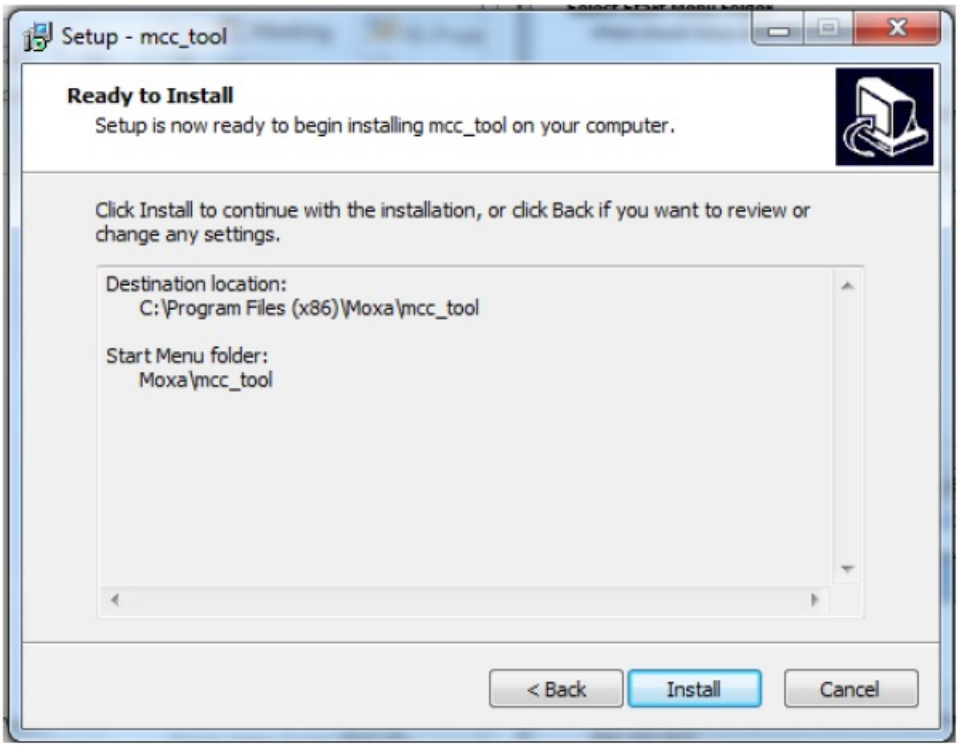
- Step 3: Select Start Menu Folder to create the program's shortcuts.



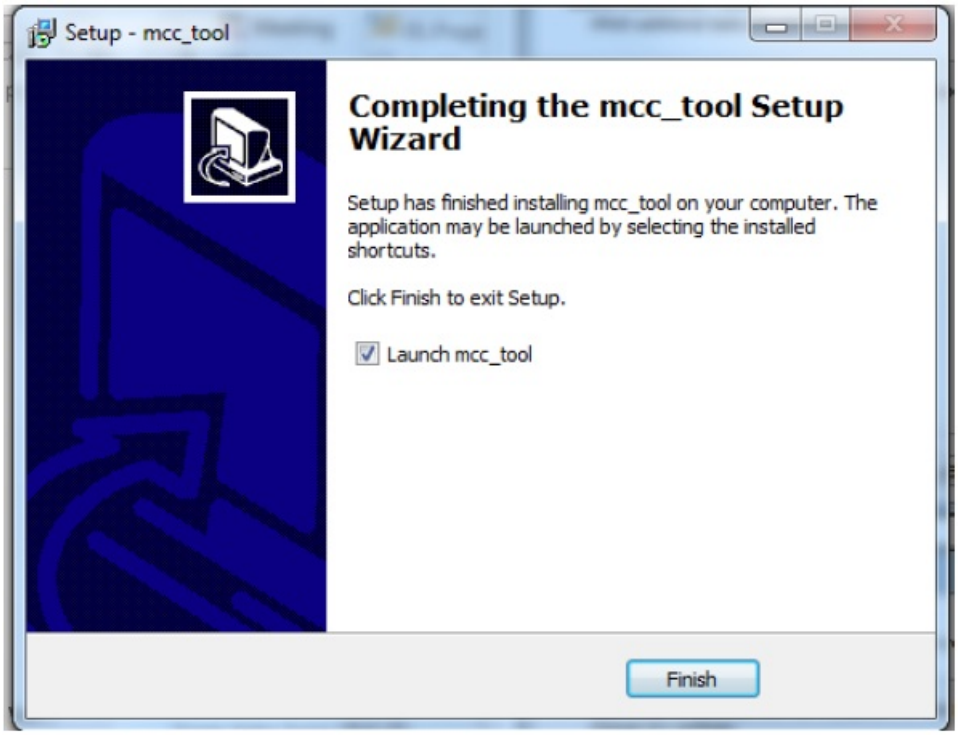
- Step 4: Select Additional Tasks if any and click Next.



- Step 5: Confirm previous selection and prepare to install.



- Step 6: Complete setup and check Launch mcc_tool if you want to use MCC_Tool after exiting the setup wizard



- Step 7: Use –h command to prompt help information

```
Administrator: C:\windows\system32\cmd.exe
MCC_Tool 1.1 Copyright: Moxa Inc.

Usage: ./mcc_tool [function] [options]
Function:
  -fw:  Execute "Firmware related" action.
  -cfg: Execute "Configuration related" action.
  -pw:  Execute "Password related" action.
  -re:  Execute "Restart related" action.
  -ver: Show mcc library and model list version.
  -ml:  Show supported models.
  -install:     Install plugin.
  -help: Display version of MCC_Tool and help information.
Options:
  -r:   Report firmware version.
  -up:  Upgrade firmware.
  -ex:  Export the configuration file.
  -im:  Import the configuration file.
  -ch:  Change password.
  -de:  Restart device.
  -sp:  Restart port.
  -i:   Device IP address.
  -il:  IP address list containing 1 IP address per line.
  -d:   Device list.
  -f:   File to be imported or upgraded.
  -nd:  The Device list with new password settings.
  -u:   Device's user account for login.
  -p:   Device's password for login.
  -npw: The new password for the specific user.
  -dk:  Secret key for import/export configuration.
  -ps:  Specific serial ports to be restarted.
  -o:   Output file name.
  -l:   Export result log file.
  -n:   Keep network settings for configuration import.
  -nr:  Don't reboot device after finishing executing command.
  -print: Print process message for upgrade firmware command.
  -t:   Timeout(sec).
```

Installing MCC_Tool on Linux

- Step 1: Download MCC_Tool for Linux on URL: **https://www.moxa.com/support/download.aspx?type=support&id=15925** (Linux x86) and **https://www.moxa.com/support/download.aspx?type=support&id=15924** (Linux x64). Versions for x86 and x64 OS are available.
- Step 2: Access the location where you save the downloaded file and unzip it. For example:

```
moxa@moxa-virtual-machine:~$ cd Desktop/

moxa@moxa-virtual-machine:~/Desktop$ tar -xvzf
mcc_tool_x64_ver1.0_build_17111618.tar.gz
mcc_tool_x64_ver1.0_build_17111618/
mcc_tool_x64_ver1.0_build_17111618/dsci_mcc.so
mcc_tool_x64_ver1.0_build_17111618/mxio_mcc.so
mcc_tool_x64_ver1.0_build_17111618/mcc_tool
mcc_tool_x64_ver1.0_build_17111618/mgci_mcc.so

moxa@moxa-virtual-machine:~/Desktop$ cd
mcc_tool_x64_ver1.0_build_17111618/
```

- Step 3: Execute MCC_Tool in the unzipped folder and use –h command to get all the available functions and option commands of the tool

```
moxa@moxa-virtual-
machine:~/Desktop/mcc_tool_x64_ver1.0_build_17111618$ ./mcc_tool -h
MCC_Tool ver1.0 Copyright: Moxa Inc.

Usage: ./mcc_tool [function] [options]
Function:
  -fw:       Execute "Firmware related" action.
  -cfg:      Execute "Configuration related" action.
  -pw:       Execute "Password related" action.
  -re:       Execute "Restart related" action.
  -ver:      Show mcc library version.
  -help:     Display version of MCC_Tool and help information.
Options:
  -r:        Report firmware version.
  -up:       Upgrade firmware.
  -ex:       Export the configuration file.
  -im:       Import the configuration file.
  -ch:       Change password.
  -de:       Restart device.
  -sp:       Restart port.
  -i:        Device IP address.
  -il:       IP address list containing 1 IP address per line.
  -d:        Device list.
  -f:        File to be imported or upgraded.
  -nd:       The Device list with new password settings.
  -u:        Device's user account for login.
  -p:        Device's password for login.
  -npw:      The new password for the specific user.
  -dk:       Secret key for import/export configuration.
  -ps:       Specific serial ports to be restarted.
  -o:        Output file name.
  -l:        Export result log file.
  -n:        Keep network settings for configuration import.
  -nr:       Don't reboot device after finishing executing command.
  -print: Print process message for upgrade firmware command.
  -t:        STimeout(sec).

** NOTICE **
If devices can't be found, you can try again with root privilege.
moxa@moxa-virtual-machine:~/Desktop/mcc_tool_x64_ver1.0_build_17111618$
```

Getting Started

This chapter covers what functions are supported by MCC_Tool and how users could use a combination of main and optional functions to manage Moxa's edge devices

Overview
Supported Functions and Command Structure
Users will be able to achieve the following tasks by executing a set of command lines.

1. Report firmware version through a device's IP address or a range of devices specified by IP addresses.
2. Upgrade firmware to a device through a device's IP address or a range of devices specified by IP addresses.
3. Export/Import device's configuration through an IP address and or a range of devices specified by IP addresses.
4. Restart command for:
    1. Restart a list of specific ports of multiple devices.
    2. Restart a device through a device's IP address or a range of devices specified by IP addresses.
5. Change password for an existing user of a device through the device's IP address or a range of devices specified by IP addresses.

NOTE
Due to model and firmware differences, the following functions may NOT work:

1. Restart multiple ports of a device
2. Change the password for an existing user (expect the user "admin")
3. Export configuration file with pre-shared key parameters You may refer to page 11 for Function Support Table to learn more details

The main functions are defined as below

Command	Function
-fw	Execute "Firmware related" action.
-cfg	Execute "Configuration related" action.
-pw	Execute "Password related" action.
-re	Execute "Restart related" action.

Main functions must be used in conjunction with optional commands in order to perform management tasks. Optional commands are listed in the table below

Command	Function
-r	Report firmware version.
-up	Upgrade firmware.
-ex	Export the configuration file.
-im	Import the configuration file.
-ch	Change password.
-de	Restart device.
-sp	Restart port.
-i	Device IP address.
-il	IP address list containing 1 IP address per line.

Command	Function
-d	Device list.
-f	File to be imported or upgraded.
-nd	The Device list with new password settings.
-u	Device's user account for login.
-p	Device's password for login.
-npw	The new password for the specific user.
-dk	Secret key for import/export configuration.
-ps	Specific serial ports to be restarted.
-o	Output file name.
-l	Export result log file.
-n	Keep network settings for configuration import.
-nr	Don't reboot device after finishing executing command.
-print	Print process message for upgrade firmware command
-t	Timeout(sec).

Device List

As mentioned in a previous section, MCC_Tool supports management tasks to a device or a range of devices. Managing multiple devices via MCC_Tool requires device list(s). MCC_Tool includes an example file of a device list, named DeviceList under Linux and DeviceList.txt under Windows. The format of the device list is:

```
Model       ServerName       IP            MAC                FwVer  User  PWD    CfgFile  Key    FwFile  Port
NPort6650;  NPort6650_123;   192.168.1.1;  00:90:e8:01:02:03;  1.3;   ;     moxa;  ;        moxa;  ;       ;
```

NOTE

1. To import configuration, please identify the CfgFile and Key column.

2. To export configuration, please input the pre-shared key under Key column (This function only works on NPort products).
3. To upgrade firmware, please input the firmware name under FwFile column.
4. To restart a specific port, please input the specific port under Port column (This function only works on the NPort device server products

Support Product Series
Because of easy maintenance, MCC Tool separates the device support list by independent product line plugin, which includes the E1200_model, I4500_model, MGate model, and NPort_model since version 1.1. In the future, you may update the plugin to support new product models.

Function Support Table
Due to firmware differences, some functions are not available for certain models; user may refer to the table below for function support coverage

<table>
<tr><th colspan="2">NPort 6000 Series</th><th>NPort IA5000A/5000A Series</th><th>MGate 3000 Series</th><th>ioLogik E1200 Series</th><th>ioThinx 4500 Series</th></tr>
<tr><td>Report firmware versions</td><td>P</td><td>P</td><td>P</td><td>P</td><td>P</td></tr>
<tr><td>Upgrade firmware</td><td>P</td><td colspan="4">· Does not support account management (-u)</td></tr>
<tr><td>Export device’s configuration</td><td>P</td><td colspan="4">· Does not support account management (-u)
· Does not support file decryption (-dk)</td></tr>
<tr><td>Import device’s configuration</td><td>P</td><td>· Does not support account management (-u)
· Does not support file decryption (-dk)</td><td colspan="3">· Does not support account management (-u)
· Does not support file decryption (-dk)
· Does not allow device to reject to restart (-nr)</td></tr>
</table>

NPort 6000 Series		**NPort IA5000A/5000A Series**	**MGate 3000 Series** **ioLogik E1200 Series**	**ioThinx 4500 Series**
Restart specific serial port(s)	P	· Does not support account management (-u)	· Does not support this command	
Restart the devices	P	· Does not support account management (-u)		
Set password	P	· Does not support account management (-u)	· Does not support account m anagement (-u) · Does not allow device to reje ct to restart (-nr)	

Usage Examples of Supported Functions

Report Firmware Versions

Report firmware version of an individual device or a range of devices specified through an IP address list. Output is directed to the screen, unless an output file is specified.

- MCC_Tool –fw –r –i [ip_address] –o [output_file]
- MCC_Tool –fw –r –il [IP_address_list] –o [output_file]
- MCC_Tool –fw –r –il [IP_address_list] –o [output_file] –t [timeout_value]

Example of the IP address list file of Moxa devices:

- 192.168.1.1;
- 192.168.1.2;
- 192.168.1.3;

Parameters Description

Command	Function
-fw	Execute actions for firmware related
-r	Report firmware version
-i	Device's IP address (192.168.1.1)
-il	IP address list containing 1 IP address per line
-o	Output file name (can generate the Device List file)
-l	Export result log file
-t	Timeout (1~120 seconds) Default value: 10 seconds

Example: Obtain firmware version of devices at IP.list and output to DeviceList file MCC_Tool –fw –r –il IP.list –o DeviceList

The result log should include the items below:

```
Model        ServerName       IP            MAC                FwVer  User  PWD     CfgFile  Key     FwFile  Port
NPort6650;   NPort6650_123;   192.168.1.1;  00:90:e8:01:02:03;  1.3;   ;     moxa;   ;        moxa;   ;       ;
NPort6150;   NPort6150_456;   192.168.1.2;  00:90:e8:04:05:06;  1.3;   ;     moxa;   ;        moxa;   ;       ;
```

NOTE
You may use this command to generate the Device List for other function usage. The output value under the PWD and Key columns are dummy values, where user will need to input the password and key information of the device when executing other function commands with the device list. Other columns highlighted will need to be assigned values when executing specific commands, such as import configuration file or firmware upgrade.

Upgrade Firmware and Restart the Device
The password(s) must be specified by a command parameter or by the DeviceList file before upgrading the firmware and restarting a specific device (or multiple devices at the same time). After upgrading firmware, users should use search the command to check whether the device reboots successfully or not.

- MCC_Tool –fw –up –i [ip_address] –u [user] –p [password] –f [firmware_file] –l [result_log]
- MCC_Tool –fw –up –d [device_list] –l [result_log]
- MCC_Tool –fw –up –d [device_list] –l [result_log] –t [timeout_value]

Parameters Description:

Command	Function	Remark
-fw	Execute actions for firmware related	
-up	Upgrade firmware version	
-i	Device's IP address (192.168.1.1)	
-u	Device's user account for login. *This option may only work with the models that have user account management.	Only the NPort 6000 Series supports this command function.
-p	Device's password for login	
-d	Device list	
-f	Firmware file to be upgraded	
-l	Export result log file	
-t	Timeout (1~1200 seconds) Default value: 800 seconds	
-print	Print upgrade process status message	

Example: Upgrade firmware using a device list and capture the results in an import log MCC_Tool –fw –u –d DeviceList –l result_log

The result_log should include the items below:

```
Model         ServerName        IP              MAC                    FwFile              ErrCode
NPort6650;    NPort6650_123;    192.168.1.1;    00:90:e8:01:02:03;     NP6000_V1.3.rom;    0;
NPort6150;    NPort6150_456;    192.168.1.2;    00:90:e8:04:05:06;     NP6000_V1.3.rom;    0;
```

Export/Import Device's Configuration

Export/Import the device configuration for a specific device or a range of devices through the device list file. The password must be specified by parameter or by the device list file. Device configurations are stored in individual files, using device type, IP address, and file create date as the filename. The result log is directly printed on the screen, or the user can specify a result_log file for it.

- MCC_Tool –cfg –ex –i [ip_address] –u [user] –p [password] –dk [key] –l [result_log]
- MCC_Tool –cfg –ex –d [device_list] –l [result_log]
- MCC_Tool –cfg –ex –d [device_list] –l [result_log] –t [timeout_value]
- MCC_Tool –cfg –im –i [ip_address] –u [user] –p [password] –dk [key] –f [cfg_file] –l [result_log] –n –nr
- MCC_Tool –cfg –im –d [device_list] –l [result_log] –n –nr
- MCC_Tool –cfg –im –d [device_list] –l [result_log] –t [timeout_value]

Parameters Description:

Command	Function		Remark
-cfg	Execute actions for configuration related		
-ex	Export the configuration file		
-im	Import the configuration file		
-i	Device	IP address (192.168.1.1)	
-d	Device	list	

Command	Function	Remark
-u	Device's user account for login *This option may only work with the models that have user ac count management.	Only the NPort 6000 Series supports this command f unction.
-p	Device's password for login	
	When Exporting configuration:	
	The command decrypts the exported file with	
	the pre-shared key.	
	· If this parameter is not used, the exported file will be encrypted by the pre-shared key set on the firmware of the d evice. · If this parameter is used, the exported file will be decry pted to a clear-txt file for editing. **When Importing configuration:**	
	If the configuration file that needs to be	
-dk	imported is encrypted, the command is needed with pre-shar ed key. · If the import configuration file is without -n, mcc tool wil l ignore -dk (won't return -11). · If the import configuration file is with – n, mcc tool will use pre-shared key to decrypt the encrypted file. Therefore, if the key is wrong for decrypting the file, mcc tool will return -1 0. However, if the file is in plain text, and user inputs pre-shared key, it will ignore the key (won't return -10).* (by parameter -dk or the key column in the device list file)	Only the NPort 6000 Series supports this command function.
	*This option may only work with the models	
	that support encrypted configuration files.	

-f	The configuration file to be imported	Only for import configuration function
-n	Keep original network parameters (includes IP, subnet mask, gateway, and DNS)	Only for import configuration function
-nr	Do not reboot the device after importing the configuration file	Only for import configuration fun ction. MGate, ioLogik, and ioThin x devices do not support this command.
-l	Export result log file	
-t	Timeout (1~120 seconds) Export function Default value: 30 seconds Import function Default value: 60 seconds	

Example: Export the configuration using a device list and export the results to a result log
MCC_Tool –cfg –ex –d DeviceList –l result_log

The result_log should include the following items

```
Model       ServerName      IP            MAC                FwVer  ExportCfgFile                      Key    ErrCode
NPort6650;  NPort6650_123;  192.168.1.1;  00:90:e8:01:02:03;  1.3;   NP6650_192_168_1_1_20170622.ini;  moxa;  0;
NPort6150;  NPort6150_456;  192.168.1.2;  00:90:e8:04:05:06;  1.3;   NP6650_192_168_1_2_20170622.ini;  moxa;  0;
```

Example: Import the configuration to a device list (with restart the units) and export the results to a result log
MCC_Tool –cfg –im –d DeviceList –l result_log

The result_log should include the items below

```
Model       ServerName      IP            MAC                FwVer  CfgFile                        Key    ErrCode
NPort6650;  NPort6650_123;  192.168.1.1;  00:90:e8:01:02:03;  1.3;   NP6650_192_168_1_1_20170622.ini  moxa;  0;
NPort6150;  NPort6150_456;  192.168.1.2;  00:90:e8:04:05:06;  1.3;   NP6650_192_168_1_2_20170622.ini  moxa;  0;
```

Example: Import the configuration to a device list without restarting the units and export the results to a result log
MCC_Tool –cfg –im –d DeviceList –nr –l result_log

Restart Specific Serial Ports or the Whole Devices

Restart the specific port(s) or the device itself for an individual device or a range of devices specified by the device list file. The password must be specified by a parameter or by the device list file. Device configurations are stored in individual files, using device type, IP address, and file create date as the filename. The result log is directly printed on the screen, or users can specify a result_log file for it.

- MCC_Tool –re –sp –ps [1-4,7] –l [ip_address] –u [user] –p [password]–l [result_log]
- MCC_Tool –re –sp –d [device_list] –l [result_log]
- MCC_Tool –re –sp –d [device_list] –l [result_log] –t [timeout_value]

- MCC_Tool –re –de –l [ip_address] –u [user] –p [password] –l [result_log]
- MCC_Tool –re –de –d [device_list] –l [result_log]
- MCC_Tool –re –de –d [device_list] –l [result_log] –t [timeout_value]

Parameters Description:

Command	Function	Remark
-re	Execute actions related to restart.	
-sp	Restart specific serial ports of the device. This option may only work with the models that support restart ports	MGate and ioLogik devices do not support restart specific port functions.
-de	Restart Device	
-ps	Used for restarting specific ports that assign which serial ports should be restarted	MGate and ioLogik devices do not support restart specific port functions.
-i	Device IP address (192.168.1.1)	
-u	Device's user account for login *This option may only work with the models that have user account management	Only the NPort 6000 Series supports this command function.
-p	Device's password for login	
-d	Device list	
-l	Export result log file	
-t	Timeout (1~120 seconds) Restart device, the default value is 15 seconds Restart port, the default value is 10 seconds	

Example: Restart port using a device list and export the results to a result log MCC_Tool –re –sp –d DeviceList –l result_log

The result_log should include items below:

Model	ServerName	IP	MAC	FwVer	Port	ErrCode
NPort6650;	NPort6650_123;	192.168.1.1;	00:90:e8:01:02:03;	1.3;	2-5, 8, 10;	0;
NPort6150;	NPort6150_456;	192.168.1.2;	00:90:e8:04:05:06;	1.3;	1,2,3;	0;

The serial ports 2-5, 8 and 10 of device 1 (NPort 6650) have been restarted.

Example: Restart device using a device list and export the results to a result log MCC_Tool –re –de –d DeviceList

–l result_log

The result_log should include the following items

```
Model          ServerName          IP              MAC                   FwVer          ErrCode
NPort6650;     NPort6650_123;      192.168.1.1;    00:90:e8:01:02:03;    1.3;           0;
NPort6150;     NPort6150_456;      192.168.1.2;    00:90:e8:04:05:06;    1.3;           0;
```

Change User's Password on the Device

Set the password of the target device specified by an IP address. The current password must be specified by a parameter or by the Device List file.

- MCC_Tool –pw –ch –i [ip_address] –u [user] –p [old_password] –npw [new_password]
- MCC_Tool –pw –ch –d [device_list] –nd [device_list_new_password] –l [result_log]
- MCC_Tool –pw –ch –d [device_list] –nd [device_list_new_password] –l [result_log] –t [timeout_value]

Parameters' Description:

Command	Function	Remark
-pw	Execute actions for password related	
-ch	Change password	
-npw	The new password for the specific user	
-i	Device’s IP address (192.168.1.1)	
-u	Device’s user account for login *This option may only work with the models that have user account management	Only the NPort 6000 Series supp orts this command function.
-p	Device’s password for login (old password)	
-d	Device list	
-nd	The Device list with new password settings	The user will need to assign a ne w password in the Device List wh en using -nd command.
-l	Export result log file	
-nr	Don’t reboot device after changing password.	MGate and ioLogik devices do no t support this command.
-t	Timeout (1~120 seconds) Default value: 60 seconds	

Example: Set new password as “5678” then restart the device to make it effective, and print the result on the screen
MCC_Tool –pw 5678 –i 192.168.1.1 –u admin –p moxa
Example: Set new password from a device list and then restart the device to make it effective, and export the results to a result log
MCC_Tool –pw DeviceList_New –d DeviceList –l result_log

The result_log should include the items below:

Model	ServerName	IP	MAC	FwVer	User	PWD	ErrCode
NPort6650;	NPort6650_123;	192.168.1.1;	00:90:e8:01:02:03;	1.3;	admin;	5678;	0;
NPort6150;	NPort6150_456;	192.168.1.2;	00:90:e8:04:05:06;	1.3;	admin;	moxa;	0;

Show Support Model List
Show the supported models of the MCC Tool. MCC_Tool -ml

Update Plugin
Users may update the Plugin for the MCC Tool to support new models, which may not be included in the current version. The command is as follow below. This function is supported by MCC_Tool version 1.1 and later.
MCC_Tool -install “path of the plugin”

Error Code Explanation
The MCC_Tool has the same error code for all the command options, please refer to below sheet for all the details:

Return Value	Description
0	Successful
-1	Device not found
-2	Password or username does not match
-3	Exceeds the length of the password
-4	Failed to open the file If the target file path exists, please make sure you have the privilege to the target pat h
-5	The action timed out
-6	Import failed
-7	Firmware upgrade failed
-8	Exceeds the length of the new password
-9	Fail to set restart port index
-10	Cipher key for decrypting the configuration file is mismatched
-11	Invalid parameter E.g., 1. Input parameters are not described above 2. The parameters do not work for some devices (e.g., -u for the MGate MB3000 S eries, which does not support user account function, or -dk for the NPort 5000A Seri es, which does not support pre-shared key function) 3. Using device list file should not input -i, -u, -p, or -npw
-12	Unsupported command E.g., execute restart specific port command (MCC_Tool -re -sp) for the MGate MB30 00 Series will get error code -12
-13	A lack of information in the device list If a specific NPort only exists in the device_list_new_password but not in the device_list (original device list with old password), then an error will occur.

-14	A lack of information in the new password list If there is no new password in the device_list_new_password but the device exists in the original device list, then an error will occur.
-15	Not executable due to an error of other devices in the list
-16	The MCC_Tool does not support the firmware version of the device. Please upgrade the device to the supported firmware version (reference to the “Support Models” section)
Other value	Contact Moxa

Documents / Resources

	MOXA CLI Configuration Tool [pdf] User Manual CLI Configuration Tool, Configuration Tool, CLI Configuration, Configuration

References

- Moxa - Products
- Moxa - Support
- Moxa - Products
- Moxa - Support
- Moxa - Support
- Moxa - Support
- Moxa - Support