CV200 Manage Tool User Guide

Telematics Dual-Lens LTE CAT6 DASH CAM

QSZTRACCV200MT0100

Version: 1.00

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0. Revision History

Version	Date	Author	Description of Change
1.00	2023-03-14	Bruce Zhu	Initial

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1. CV200 Manage Tool Interface

CV200 Manage Tool is used to configure parameters for CV200 through UART. It is easy for developers to configure CV200 with it for the interface is simple and functional. All commands can be also sent by SMS or network.

The Queclink administrators can also use the Manage Tool to configure CV200 before delivery to its customers. But it is recommended for the customers to establish a backend server and to control CV200 by SMS or network. Please refer to "*CV200 @Track Air Interface Protocol*" for details.

Before using the Manage Tool, please install driver for the debug cable (2 in 1). After that a new COM port will be found in your computer, and then please refer to the following steps:

1. Connect CV200 to 12VDC power supply and CV200 will power on.
2. Connect CV200 to PC with debug cable.
3. Run "Queclink CV200 Manage Tool Vx.xx.exe".

1.1. System Requirements

Make sure the computer system meets the following configurations before installing the Manage Tool:

- Windows XP SP2 and above (32 & 64 bit);
- Windows Server 2003 (32 & 64 bit);
- Windows Server 2008 (32 & 64 bit);
- Windows Vista (32 & 64 bit);
- Windows 7 (32 & 64 bit);
- Windows 8 (32 & 64 bit);

Supported System Environments:

- Microsoft .NET Framework 4.0 or higher
  Microsoft .NET Framework 4.0 download link:
  http://www.microsoft.com/en-US/download/details.aspx?id=17718

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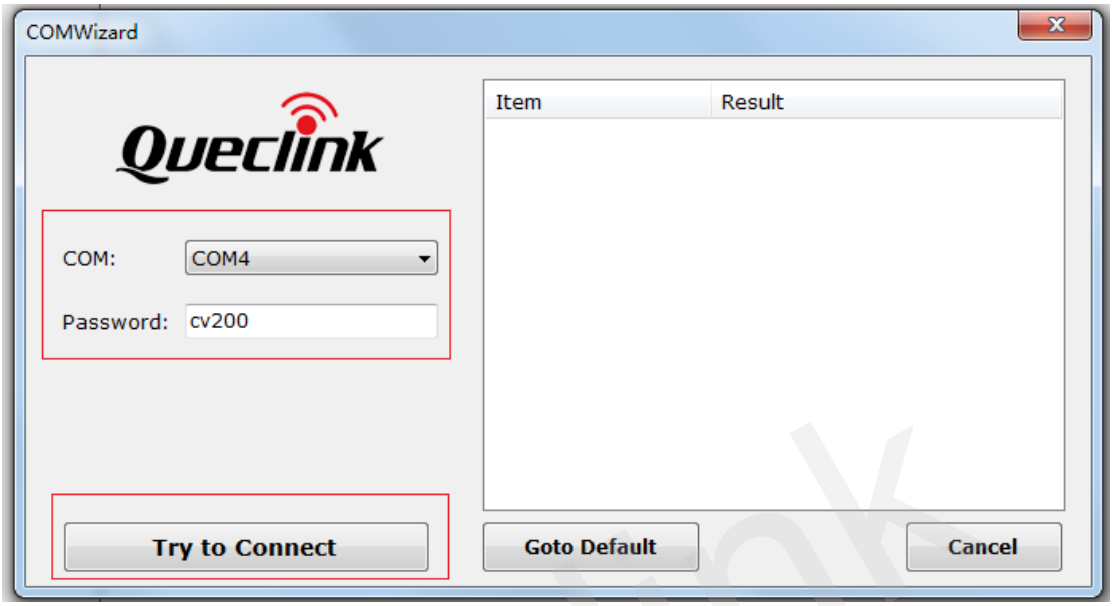
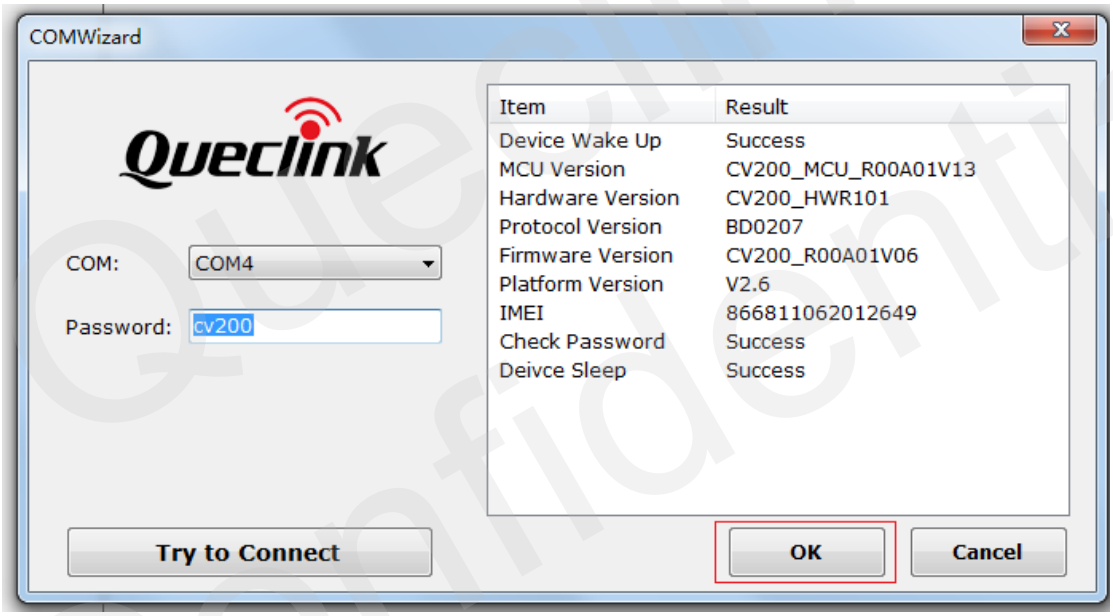
1.2. COM Wizard





Select the correct COM port. Input the password ("cv200" by default), click "Try to Connect" and then click "OK", the setting window will display.

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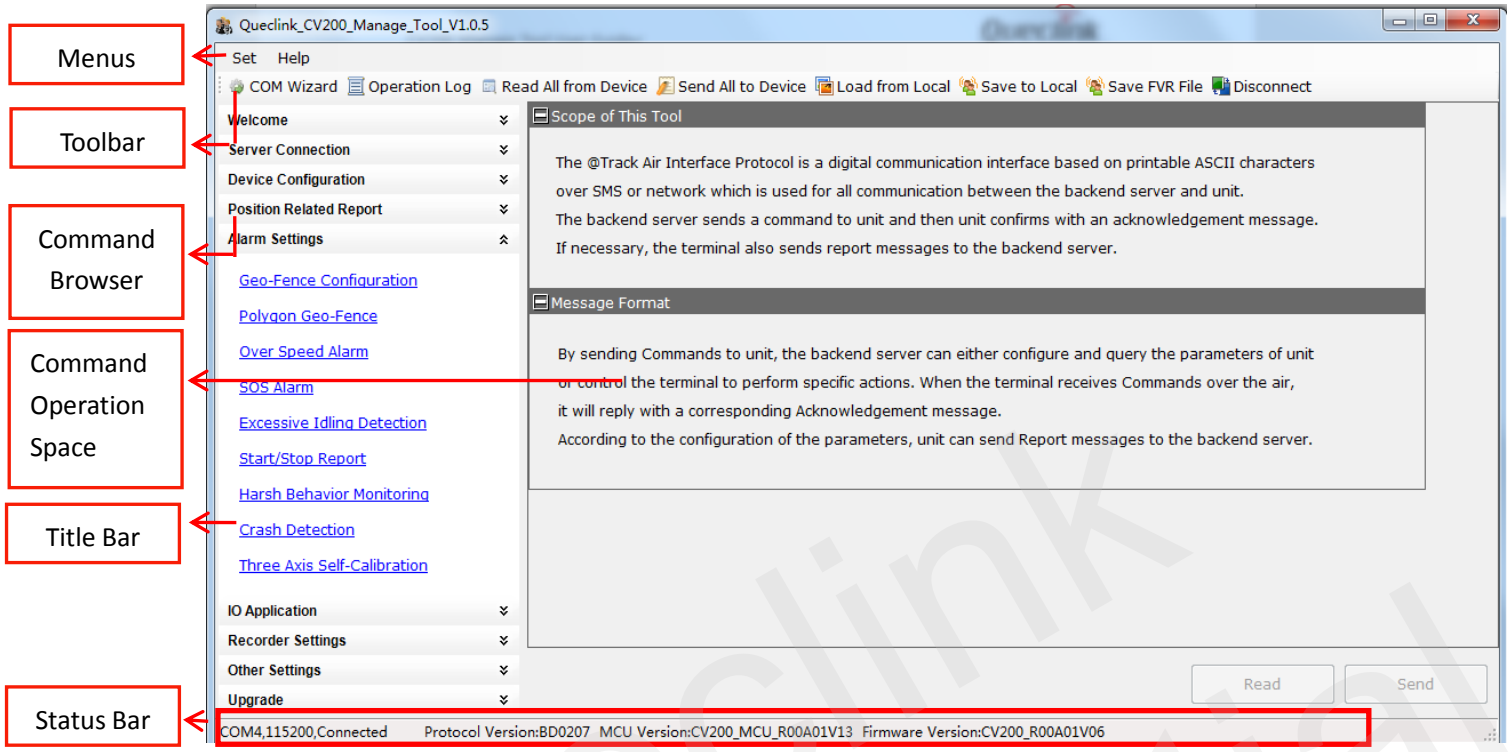
1.3. Professional Setting Windows

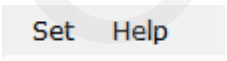


1.3.1. Title Bar

Title Bar indicates the command that is currently being operated.

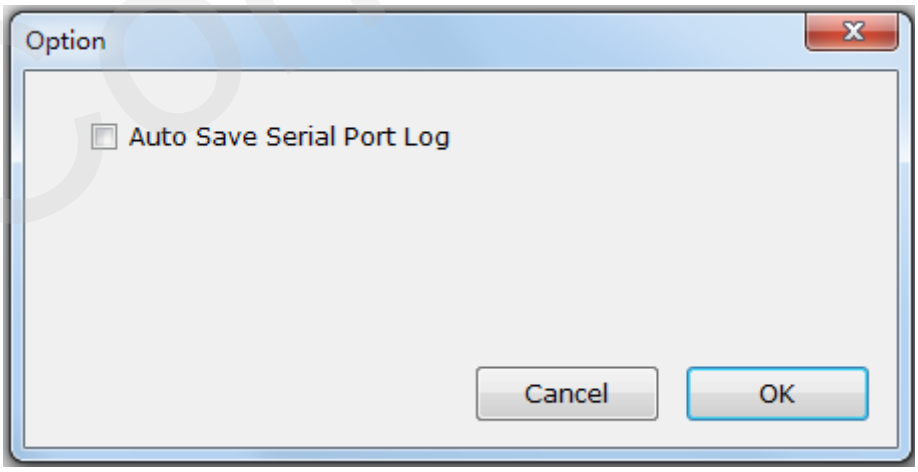
1.3.2. Menus

The Menus contains “Set” and “Help” buttons.



1.3.2.1. Set Menu

Set menu contains “Option”.



[Option]: It is used to save the serial port log for the engineer to analyze when problems occur.

1.3.2.2. Help Menu

[About]: Select “About”. Then the following pop up window will display.



“Manage Tool” indicates the version of the Manage Tool.
“MCU Version” indicates the device’s MCU version.
“Hardware Version” indicates the device’s hardware version.
“Protocol Version” indicates the device’s protocol version.
"Device Name” The specified name of the device.

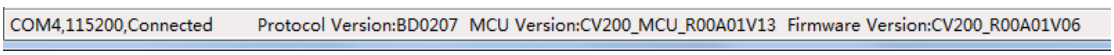
1.3.3. Toolbar

It contains “COM Wizard”, “Operation Log”, “Real All from Device”, “Send All to Device”, “Load from Local”, “Save to Local”, “Save FVR File” and “Connect/Disconnect to COM”.



[COM Wizard]: It is used to set the COM information and password. For setting details, please refer to Chapter 1.2.
[Operation Log]: It is used to display/hide operation log.
[Read All from Device]: It is used to read all the configurations from the device.
[Send All to Device]: It is used to execute all parameter configurations in Command Operation Space.
[Load from Local]: It is used to load configuration file to the Manage Tool.
[Save to Local]: It is used to save all parameter configurations to file.
[Save FVR File]: It is used to save FVR files.
[Connect/Disconnect to COM]: It is used to connect/disconnect COM manually.

1.3.4. Status Bar



The Status Bar displays system status and current status.
[System Status]: It indicates the current COM status, the command being executed, protocol

version and software version and IMEI.

1.3.5. Command Browser and Command Operation Space

This area is mainly used to read and set parameters of the device.

1.3.5.1. Command Browser

Command Browser divides all @track protocol commands into several parts. Click Title Bar in the Command Browser, parameters of this command will be shown in Command Operation Space.

Command Browser	Function Description	Command
Server Connection	Bearer Setting Information	GTBSI
	Backend Server Register Information	GTSRI
Device Configuration	Global Configuration	GTCFG
	Auto-Unlock PIN	GTPIN
	Protocol watchdog	GTDOG
	Time Adjustment	GTTMA
	Preserve Special Device Logical State	GTPDS
	Settings for Wifi	GTWFS
	Settings for Bluetooth Master Keyfob	GTBMK
	Settings for Volume	GTVOL
Position Related Report	Fixed Report Information	GTFRI
Alarm Settings	Geo-Fence Configuration	GTGEO
	Polygon Geo-Fence	GTPEO
	Over Speed Alarm	GTOSP
	SOS Alarm	GTSOS
	Excessive Idling Detection	GTIDL
	Start/Stop Report	GTSSR
	Harsh Behavior Monitoring	GTHBM
	Crash Detection	GTCRA
	Three Axis Self-Calibration	GTASC
IO Application	Settings for Over-discharge Protection	GTODP
	Digital Output Port Setting	GTOUT
	Output Port Binding	GTOPB
Recorder Settings	Recorder Parameters Configuration	GTREC
	Picture Record Settings	GTPRS
	On-screen Display	GTOSD
	Server for Transferring Files	GTFTP
	Space Assignment	GTSSA
Other Settings	Real Time Operation	GTRTO
	Hour Meter Counter	GTHMC
	White Number List Configuration	GTWLT
	Update Configuration Over the Air	GTUPC
	Configuration File Version	GTFVR
Upgrade	MCU updating	Device Upgrade

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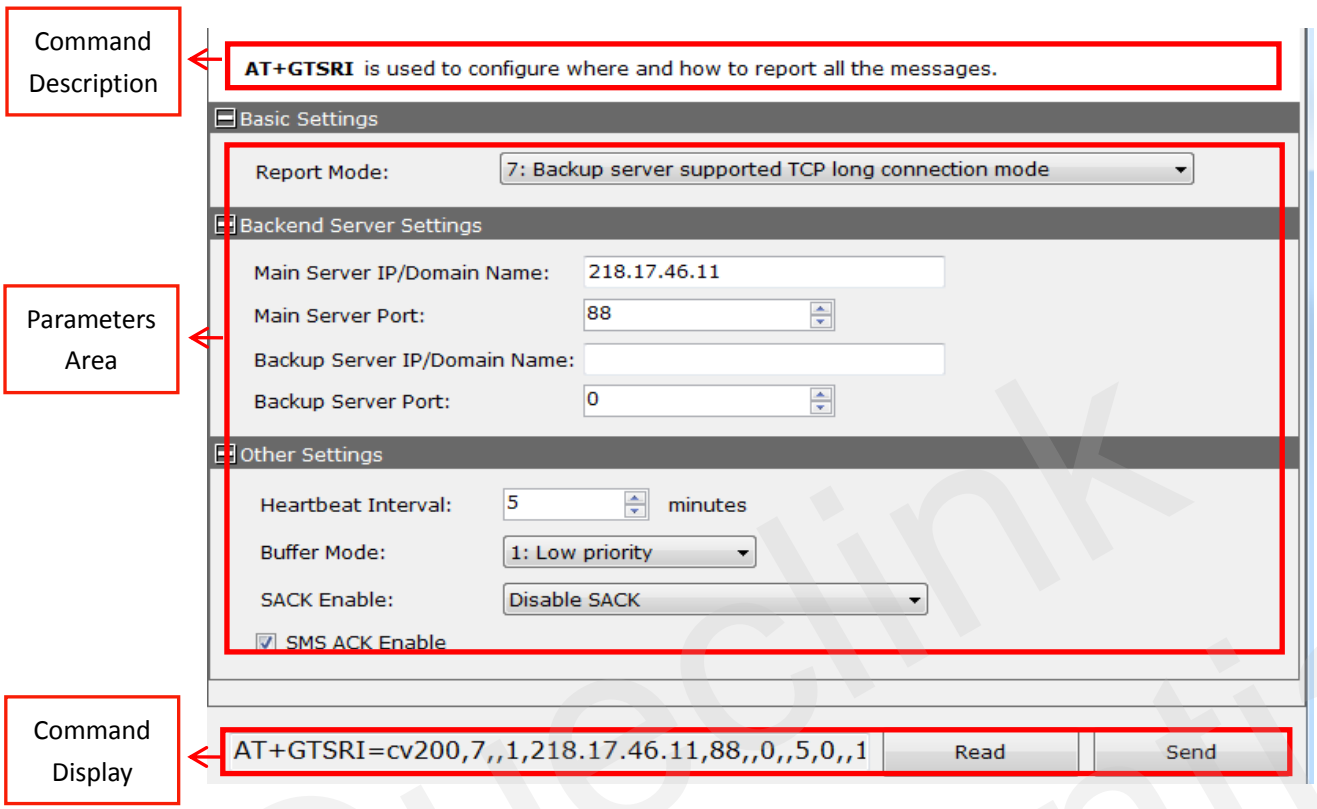
	Firmware updating	

1.3.5.2. Command Operation Space



[Command Description]: It is a short description of a command.

[Parameters Area]: Set/Read current command parameters in this area.

[Command Display]: It shows the command and corresponding parameter information in Parameters Area.

[Read]: Click this button to read the command from the device.

[Send]: Click this button to send the command to the device.

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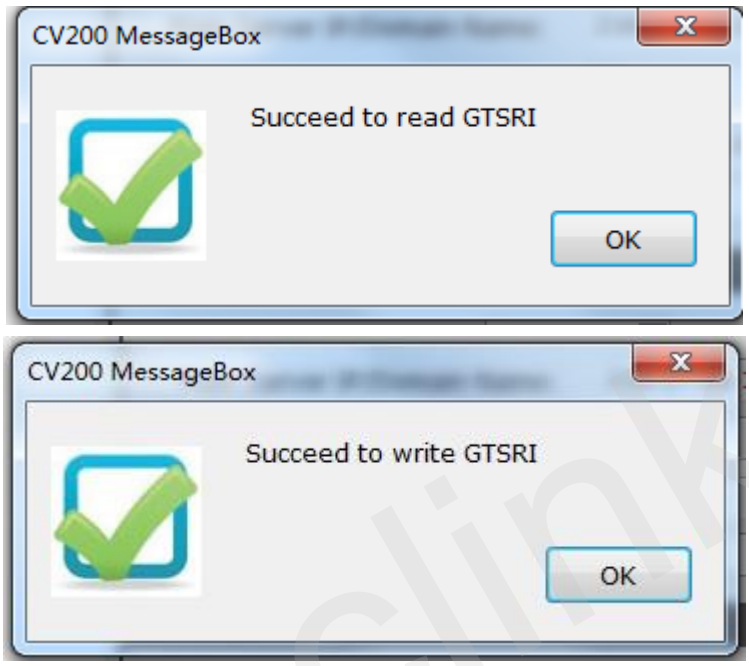
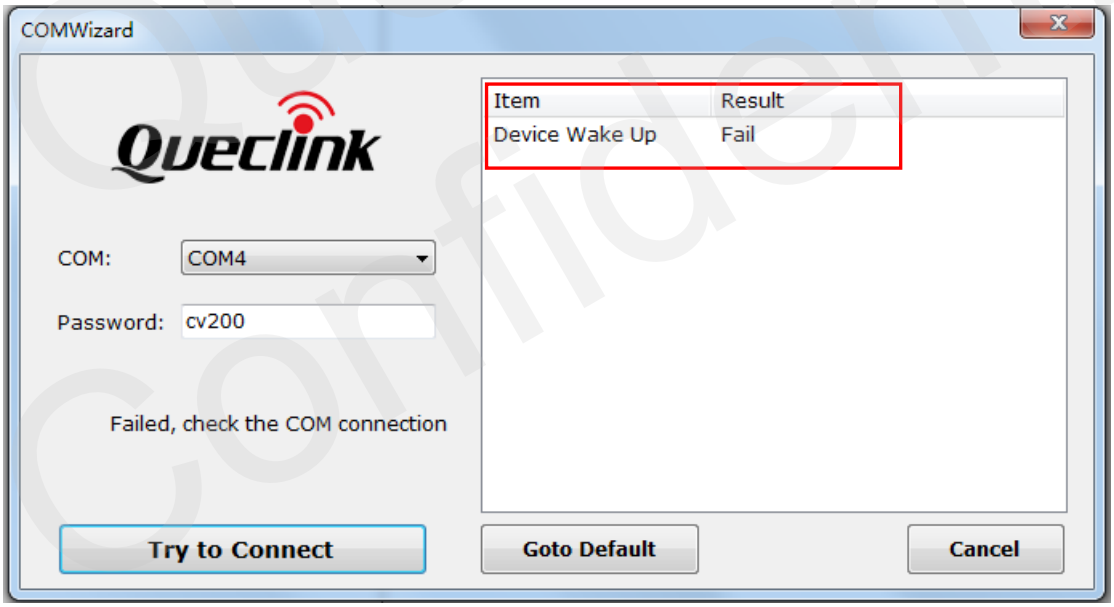
1.4. Operation Result Interfaces

1.4.1. Interfaces for Successful Operation



1.4.2. Operation for Failed Interfaces

Problem may be with the COM port connection or the device if following error occurs.



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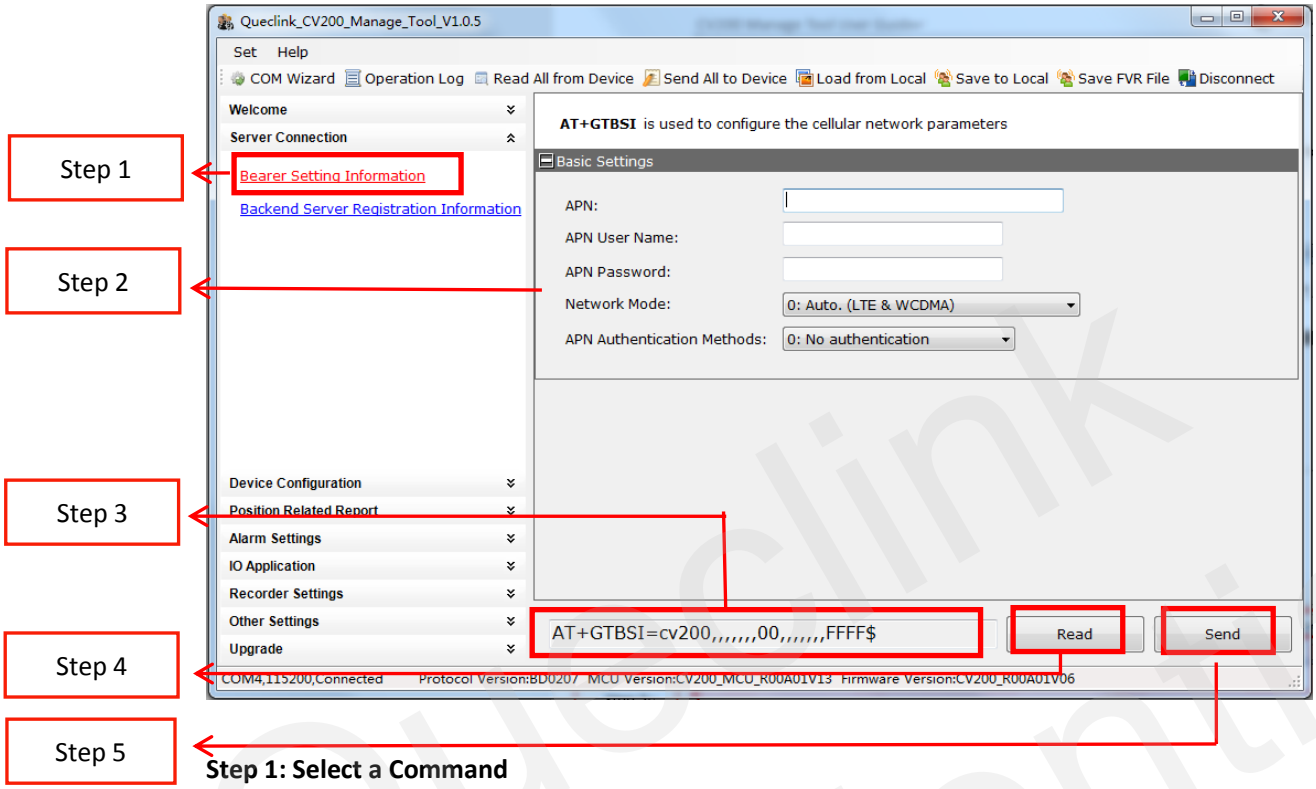
1.5. Device Configuration

The Manage Tool is developed based on the @Track Air Interface Protocol. Please refer to "*CV200 @Track Air Interface Protocol*" for details.

Following is a general procedure to configure CV200 with the Manage Tool.



Step 1: Select a Command

Select a command in Command Browser Space. After that, the parameters of the function will be shown in Command Operation Space.

Step 2: Set Parameters

Set parameters in Command Operation Space. Please refer to "*CV200 @Track Air Interface Protocol*" for the meaning of each parameter.

Step 3: Create Command Automatically

The to-be-sent command message will be generated based on the inputs. Please note that the command message can also be sent to CV200 via SMS or network.

Step 4: Read Command from the Device

Read the parameters from CV200 and modify them as needed.

Step 5: Send a Command to the Device

Click the "Send" button to download the parameters of this command to CV200.

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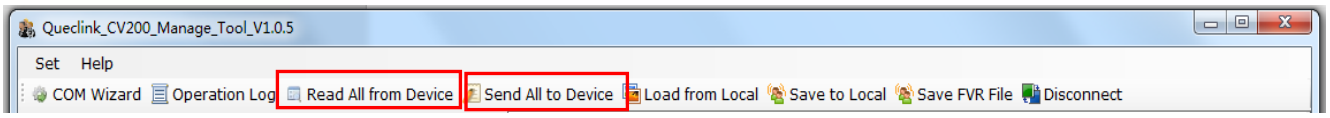
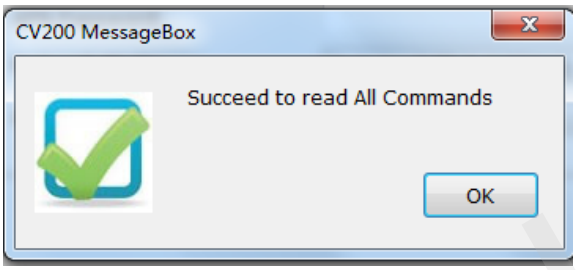
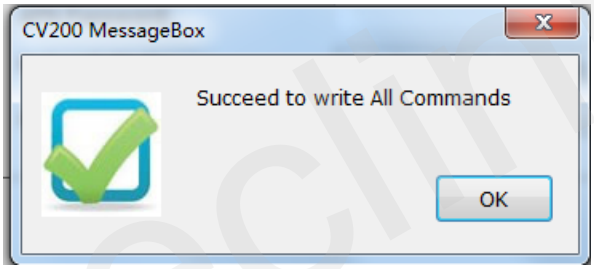
1.6. Read All from Device/Send All to Device

Step 1: Click “Read All from Device” or “Send All to Device”



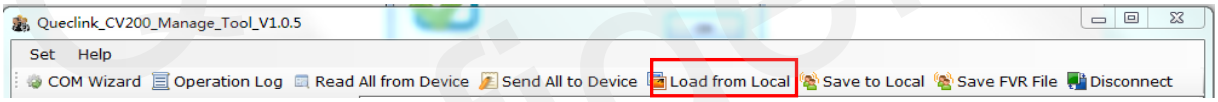
Step 2: All configuration information is read/written successfully.

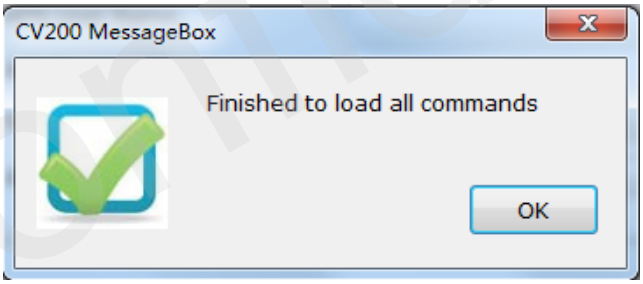




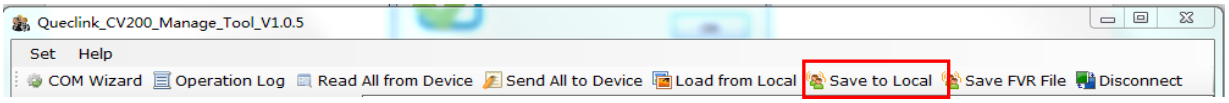
1.7. Load from Local/Save to Local

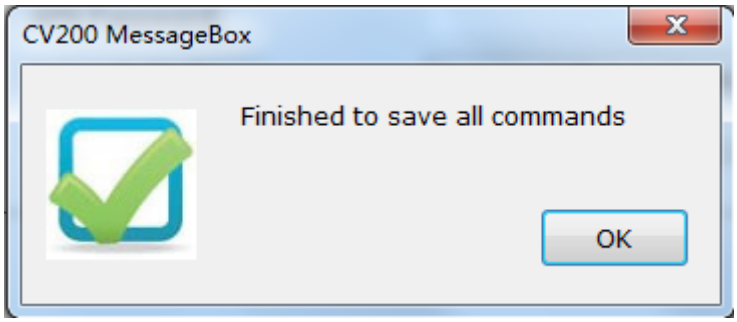
1) Load the local configuration file and execute it. Select “Load from Local”, and then select the needed configuration file.





2) Select “Save to Local” and choose a folder, type in the name of the configuration file, and then click “Save” button

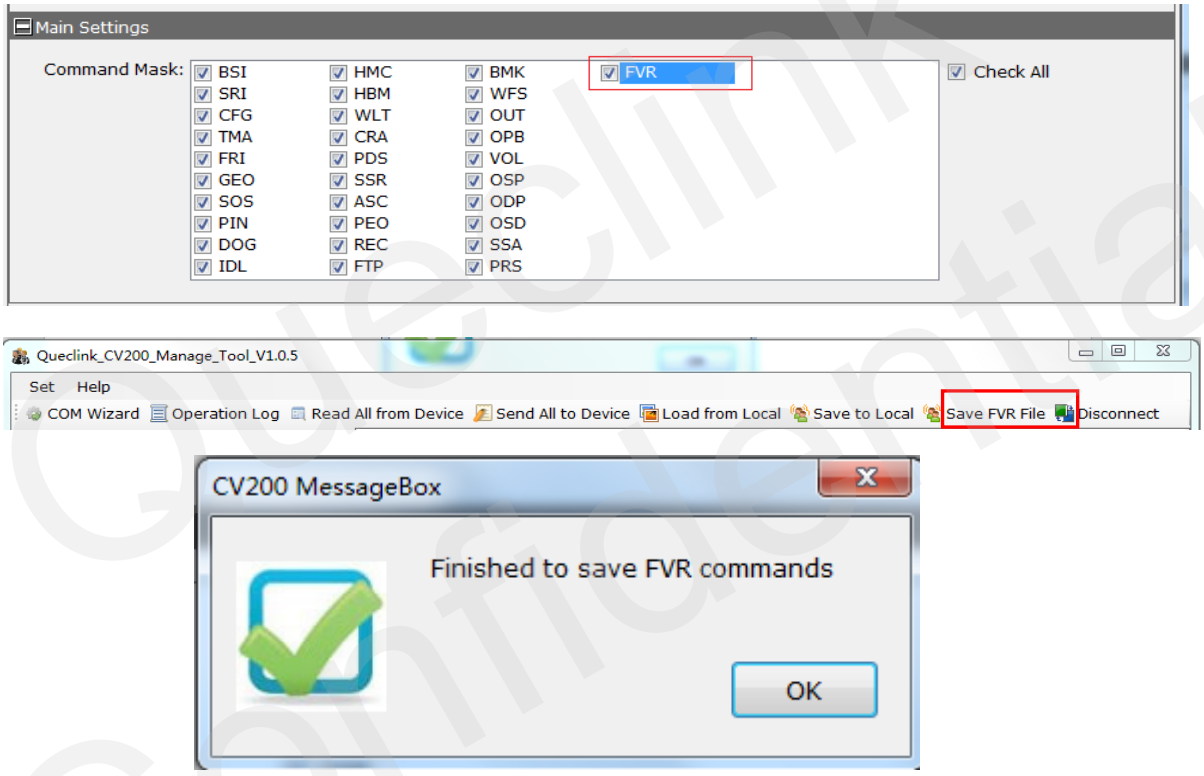




1.8. Save FVR File

1) Select “Save FVR File” and choose a folder, type in the name of the file, and then click “Save” button.

Note: FVR key cannot be generated if FVR is not checked.



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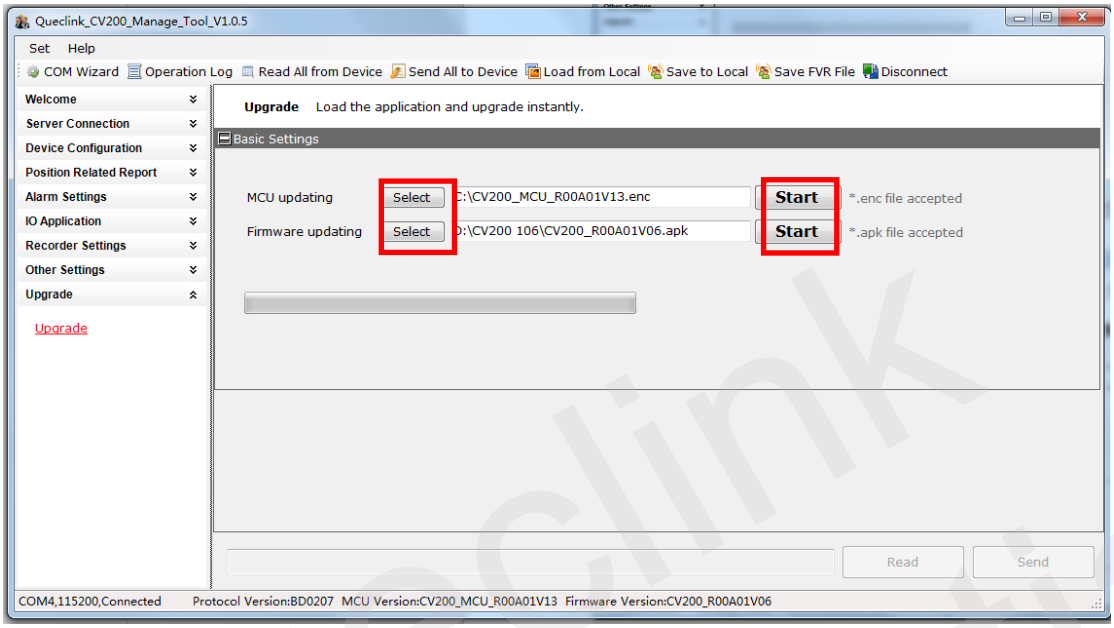
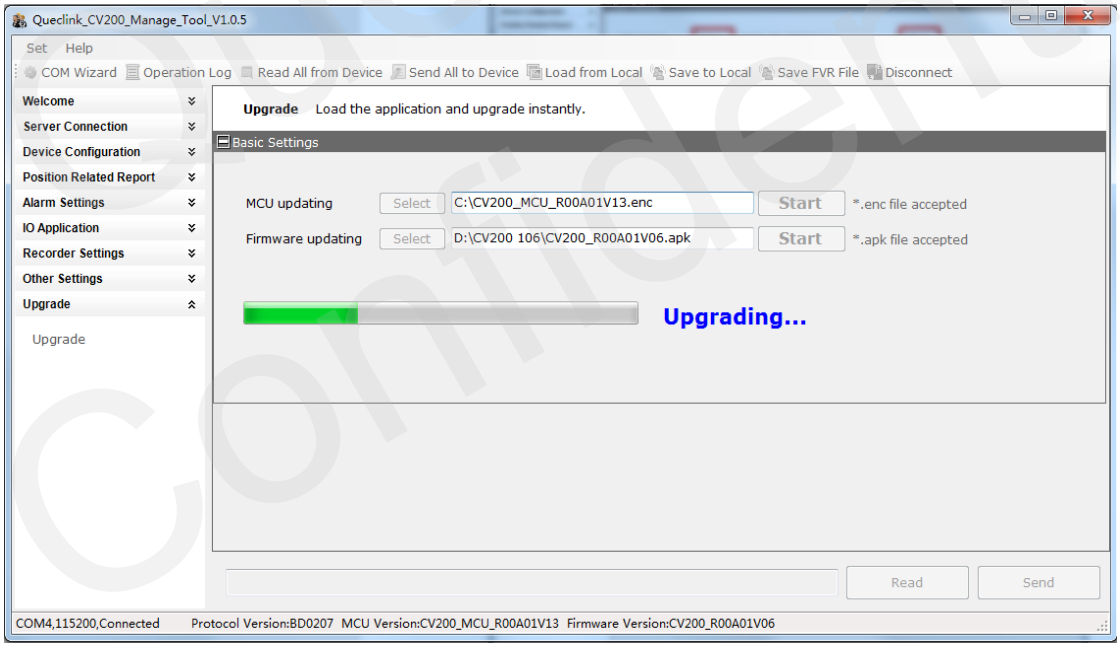
2. Device Upgrade

Following is a general procedure to upgrade CV200 firmware by Manage Tool.

1) Click “Select”, select the file for upgrade (‘MCU updating’ is for “.enc” file format, ‘Firmware updating’ is for “.apk”).



2) Click “Start”, then the interface of upgrade process will show as below:



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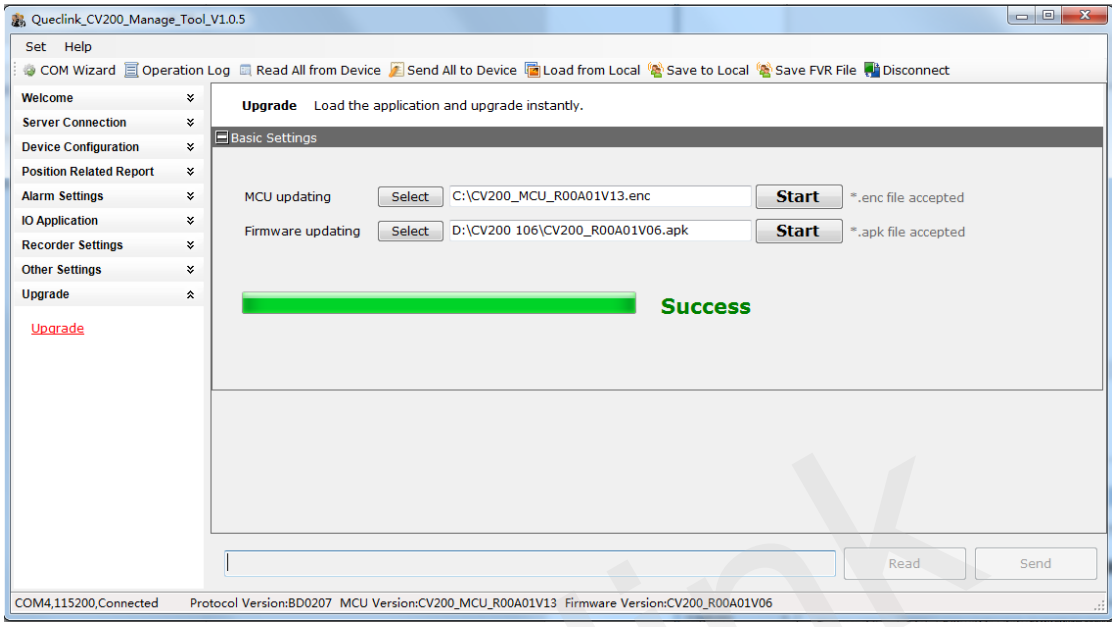
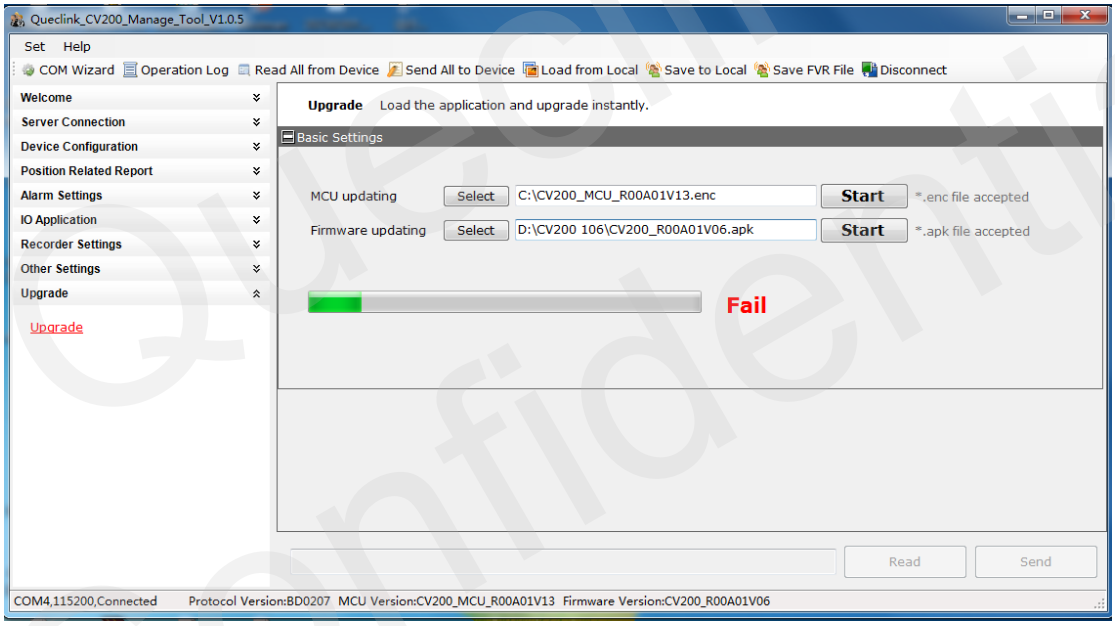
3) If upgrade is successful, the interface will show as below:



4) If upgrade failed, the interface will show as below:



If upgrade failure happens after multiple trials, try to do as following:

1) Power off the device first.
2) Open the tool, select the correct COM port and “Fail” will be displayed but ignore it for the moment.
3) Click “Goto Default” to enter the setting interface.

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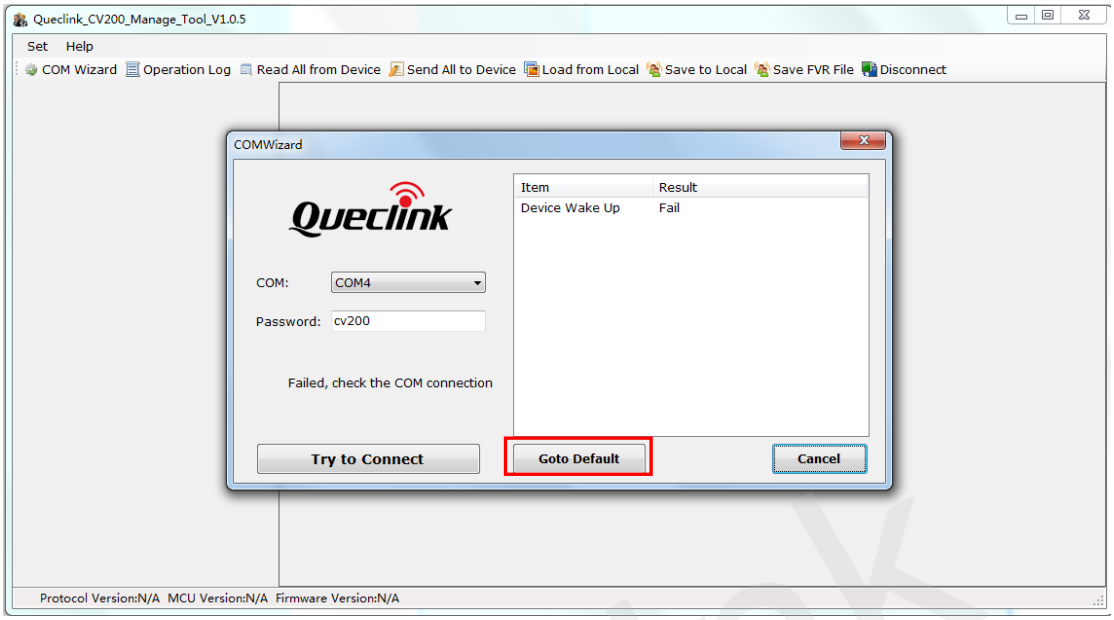
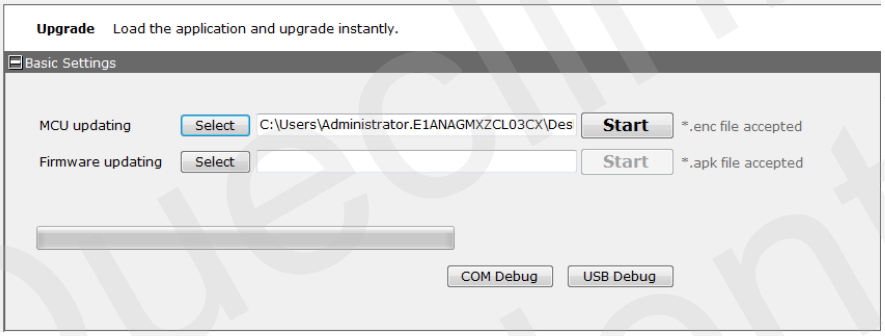
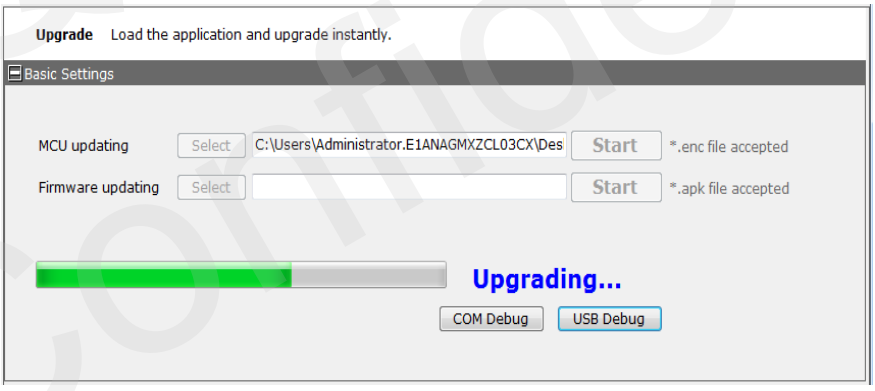


4) Select the correct file to be updated.



5) Click “Start” and power on the device within 10s.



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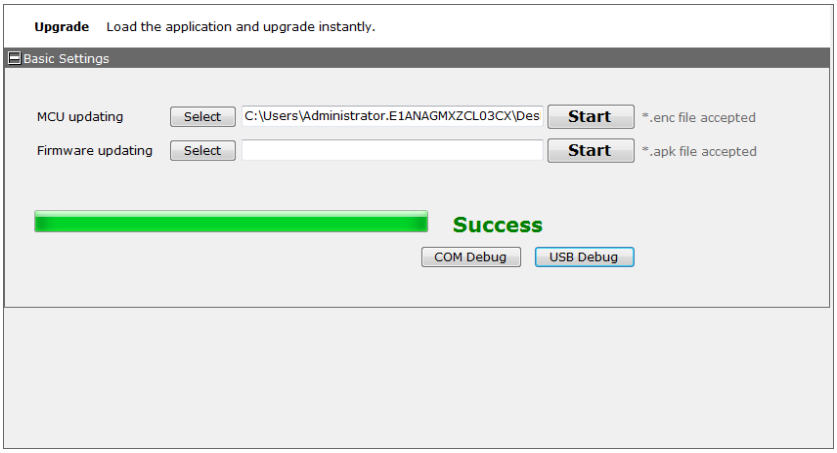

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