



Catstudio Online UserGuide

V3.0

Document Conventions



Note: Provides related information or information of special importance.



Caution

Caution: Indicates potential damage to hardware or software, or loss of data.



Warning: Indicates a risk of personal injury.

Document Status

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1 Summary

1.1 CATStudio Brief Introduction

CATStudio: Cellular Analysis & Test Studio, is used to capture and analyze ASR UE log.

CATStudio **Offline** mode: is used to open UE log and show log with multiple methods and windows.

Offline mode can run multiple CATStudio processes to open multiple UE log and compare.

CATStudio **Online** mode: is used to capture UE log and show UE status online. Online mode run only one CATStudio process since it needs to connect UE devices.

- CATStudio configuration file: user must choose config file according to UE types such as PXA1826, PXA1802, and so on. It is because of different UEs have different signal definitions.

1.2 System Requirements

1.2.1 Hardware Requirements

Processor:	Pentium IV 2.0Hz (or higher).
Memory:	512MB RAM or higher.
Hard Disk:	128MB free space on the hard disk.
Port:	USB 2.0 Port

1.2.2 Software Requirements

Operation System:	MS Windows XP, Windows7
Application Program:	Microsoft Visual C++ 2005 Redistributable Package (x86) or Microsoft Visual Studio2008.
Driver:	CATStudio USB driver (same as ACAT USB driver), included in CATStudio.

2 Install

2.1 USB Driver Install

CATStudio use the same USB driver as ACAT's, if your PC can run ACAT or confirm

PC has been installed the driver already, you can skip this step.

The driver is in CATStudio's installation package under USB path.

Install the driver by following the install wizard.

If no driver is installed, the device manager identifies the three devices after inserting the device:



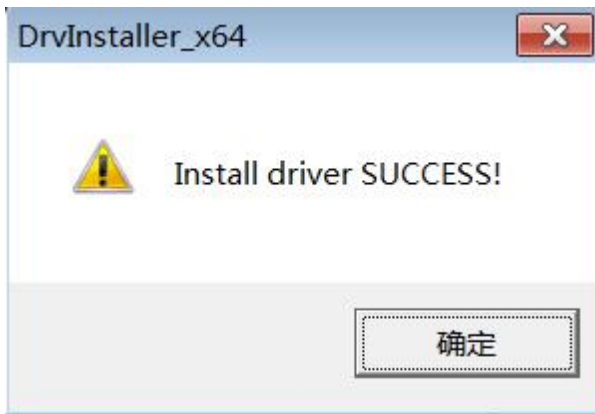
The catalogue of driver is as follows

tools > CATStudio_V2_5_9_56_P1 > Drivers >			
名称	修改日期	类型	大小
Drv	2015/12/14 15:23	文件夹	
DrvInstaller.exe	2015/12/11 17:00	应用程序	1,624 KB
DrvInstaller_x64.exe	2015/12/11 17:00	应用程序	2,222 KB

One is for Windows 32-bit system, the other is for Windows 64-bit system. Run DrvInstaller_x64, and click update driver:



The installation process may take several minutes, and the dialog box will pop up when the installation is successful:



Looking at the Device Manager, the following devices appear to prove that they have been installed successfully:



2.2 CATStudio Execution

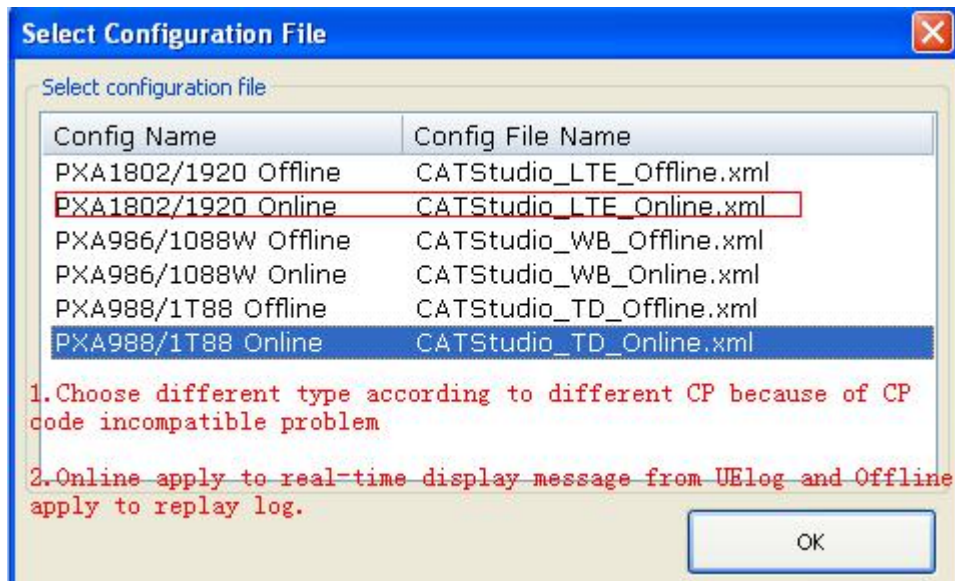
CATStudio is green software, It can be directly used after decompression without installation.

Run Catstudio.exe in CATStudio Release \Exec folder.



NOTICE: Because CATStudio needs VC MFC DLLs, so if first time running catstudio failed, please run VS2008SP1_Redist.exe (in "Exec" folder of CATStudio release package) to install VC MFC DLLs.

1, Choose On-line mode in "Select Configuration File" as shown in the figure.



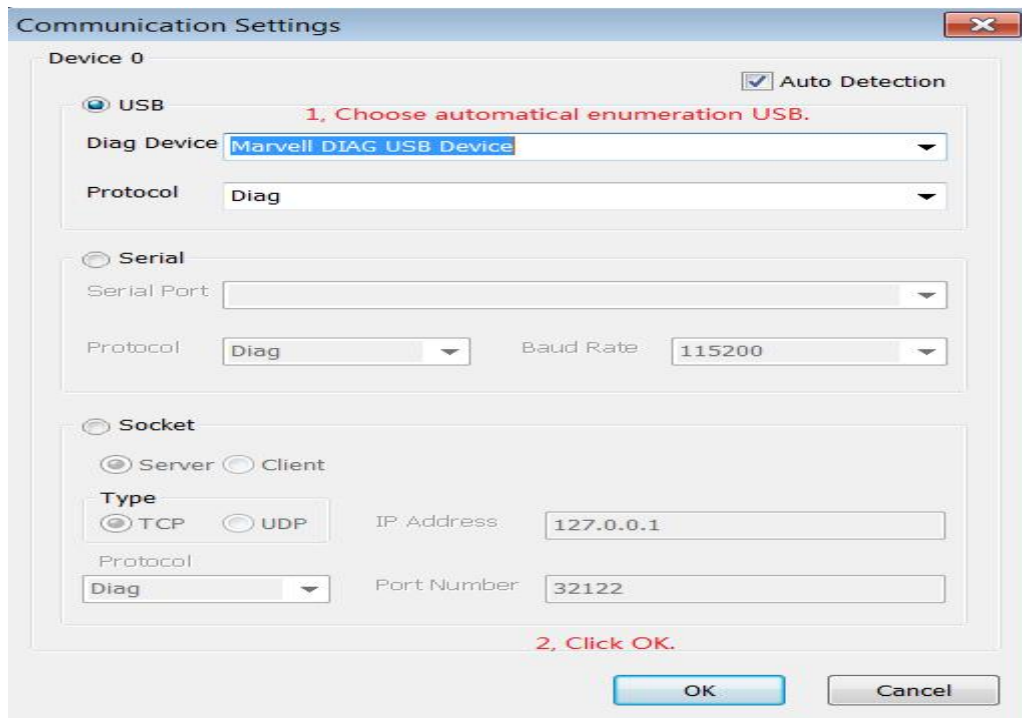
3 On-line Capture UE Log

3.1 Connect UE

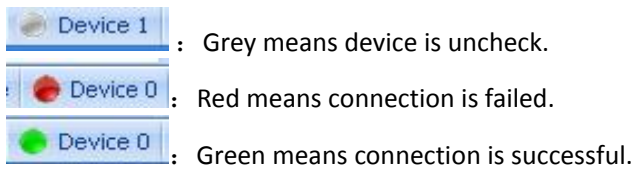
1, Choose connection device as shown in the figure.



2, Set the connection parameters.



3, Check connection status on CATStudio status bar.



For the detail about UE connection, please refer to:

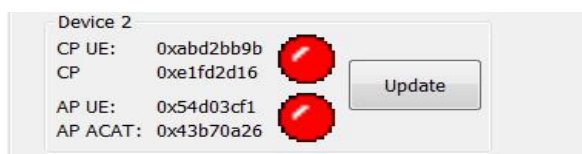
[Release Package\Manua\Reference\Catstudio Communication Guide enu.pdf.](#)

3.2 Update DB

1, Open Logger panel.



2, Click Update.



3, Check update results:

- Red means DB is mismatching.
- Green means DB is matching.
- Grey means reading UE DB is failed.

Device 0	Device 0	Device 1
CP UE: 0x0da2c2a0 	CP UE: 0x0da2c2a0 	CP UE: 0x00000000 
CP ACAT: 0xabd2bb9b 	CP ACAT: 0x0da2c2a0 	CP ACAT: 0x0da2c2a0 
AP UE: 0x0617a78e 	AP UE: 0x0617a78e 	AP UE: 0x00000000 
AP ACAT: 0x703564e1 	AP ACAT: 0x0617a78e 	AP ACAT: 0x0617a78e 

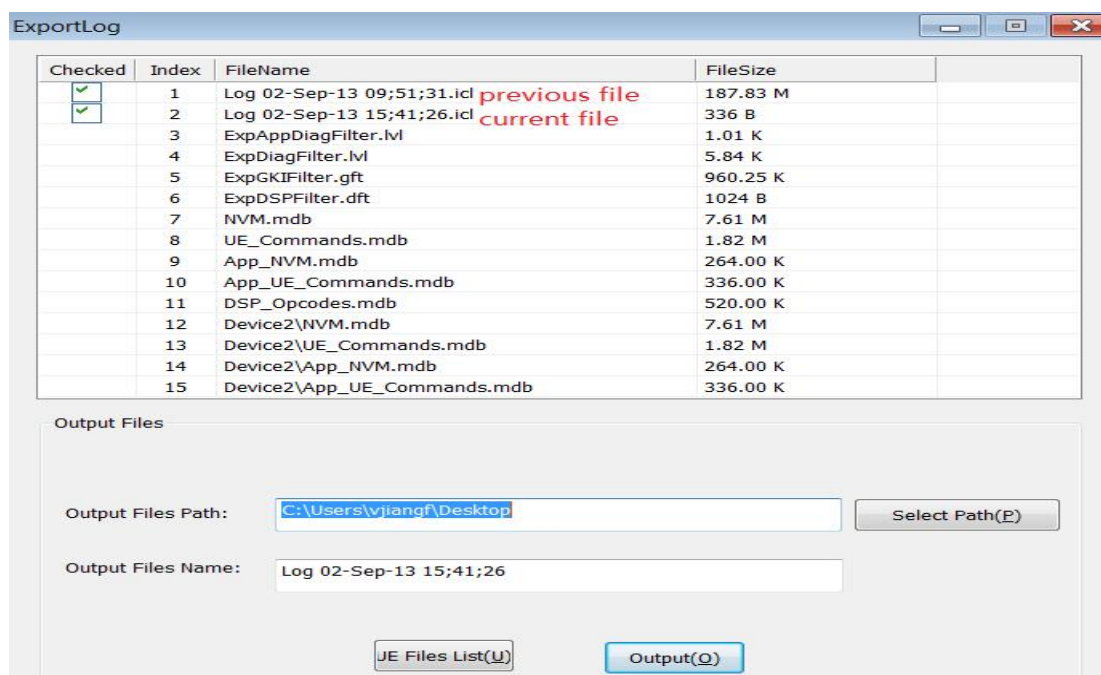
For the detail about Update DB, please refer to:

[Release Package \Manual\Reference\Catstudio UpdateDB Guide_enu.pdf](#)

3.3 Save ICL Log

1, CATStudio Menu: log->Export log –File or click CTRL+E.

2, ExportLog window UI as follow:



4 Viewer Display UE Message

4.1 MiniViewer Application Method

CATStudio menu: Modules -> MiniViewer (please use MiniViewer_LTE for LTE UEs: PXA1802, PXA1920, and so on).

If device connects successfully, MiniViewer will real-timeshow UE status and logs.

- 1) MiniViewer supports to filter message.
- 2) MiniViewer supports dual SIM display. Display->TaskNameFilter.

Details refer to:

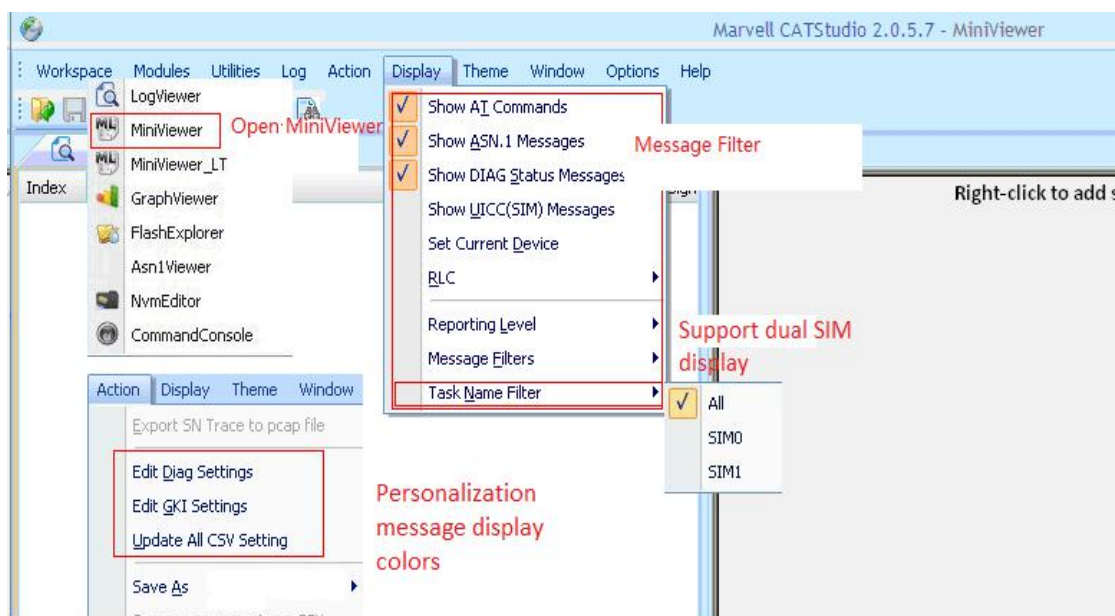
[Release Package\Manual\Reference\Catstudio DualSIM Guide enu.pdf](#)

- 3) MiniViewer supports “Start/Pause/Stop/Clear” function.
- 4) MiniViewer supports user customization of ReportingLevel and message display colors.

Action -> EditDiagSetting.

Details refer to:

[Release Package\Manual\Reference\MinViewer ReportLevel CustomedColor UserGuide enu.pdf](#)



4.2 LogViewer Application Method

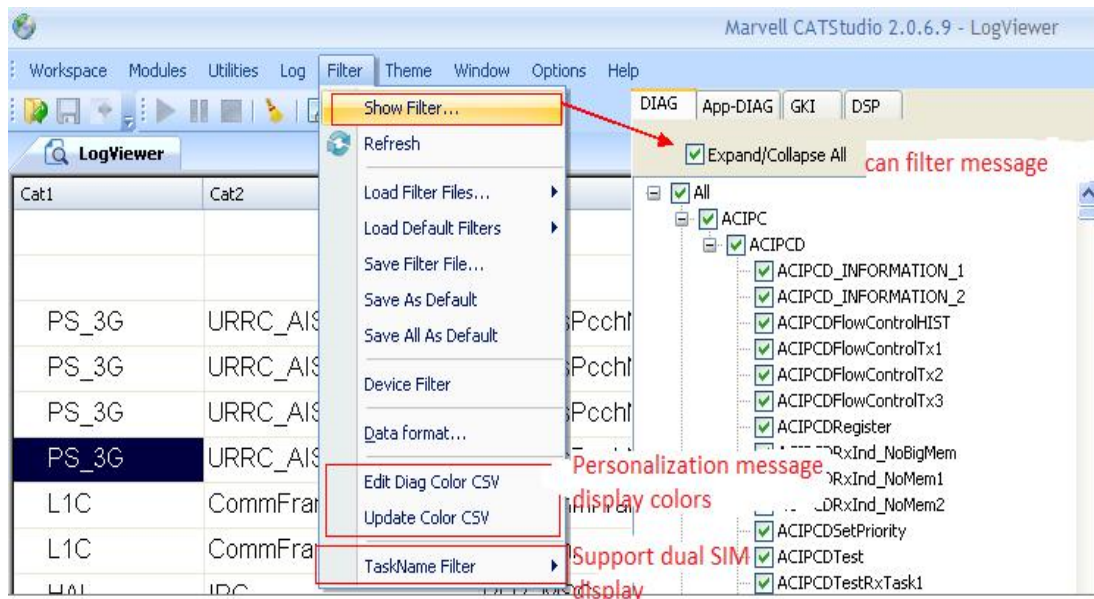
CATStudio menu: Modules -> LogViewer.

If device connects successfully, LogViewer will real-time show UE logs.

- 1) LogViewer supports to filter message.
- 2) LogViewer supports user customization of message display colors.
- 3) LogViewer supports dual SIM display.

Details refer to:

[Release Package\Manual\Reference\Catstudio DualSIM Guide enus.pdf](#)



4) Under "Pause" state, LogViewer support showing GKI message structure.



4.3 GraphViewer Application Method

CATStudio menu: Modules -> GraphViewer.

If device connects successfully and add series, GraphViewer will real-time draw the graph of signals.

1, GraphViewer supports window splitting.



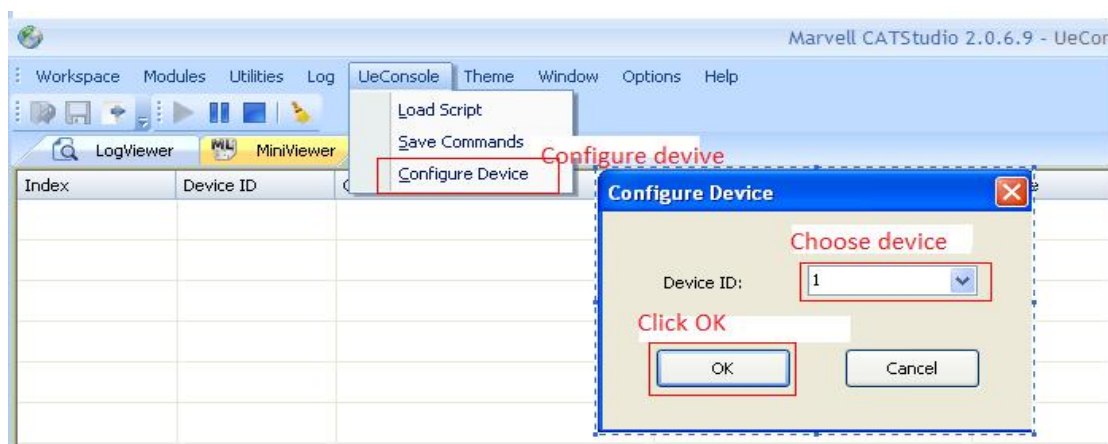
2, Right click and "Add Serie".



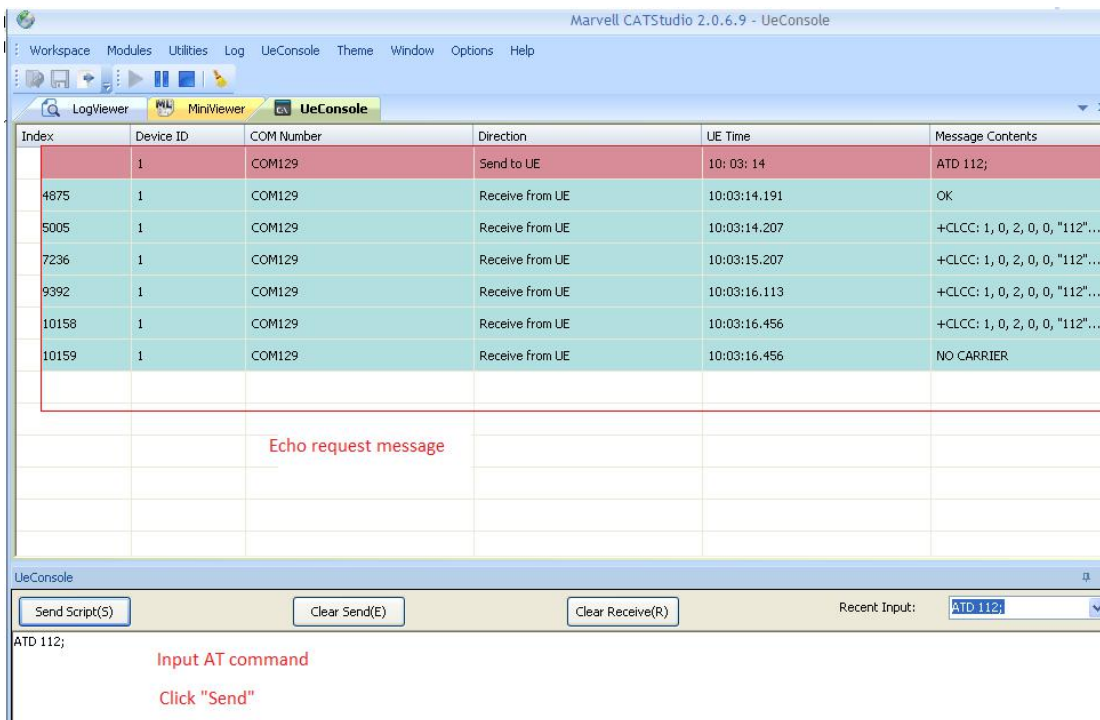
4.4 UeConsole Application Method

CATStudio menu: Modules -> UeConsole.

1, Menu UeConsole->Configure Device:



2, Send AT Command.



UeConsole detail application method, please refer to:

[Release Package\Manual\Reference\ UEConsole UserGuide .enu.pdf](#)

5 Start/Pause/Stop/Clear function

1, Pause: Viewers paused refreshing display but Logger still keeps on saving ICL Log.

This state is used for temporarily browsing current log in views to check UE status.

2, Stop: Viewers stop refresh display and Logger stop saving ICL Log.

This state is used for user confirmed the current log is wanted and will save the log later.

3, Start: resume from "Pause" and "Stop" states. Viewers resume to refresh display and Logger keep on saving ICL log.

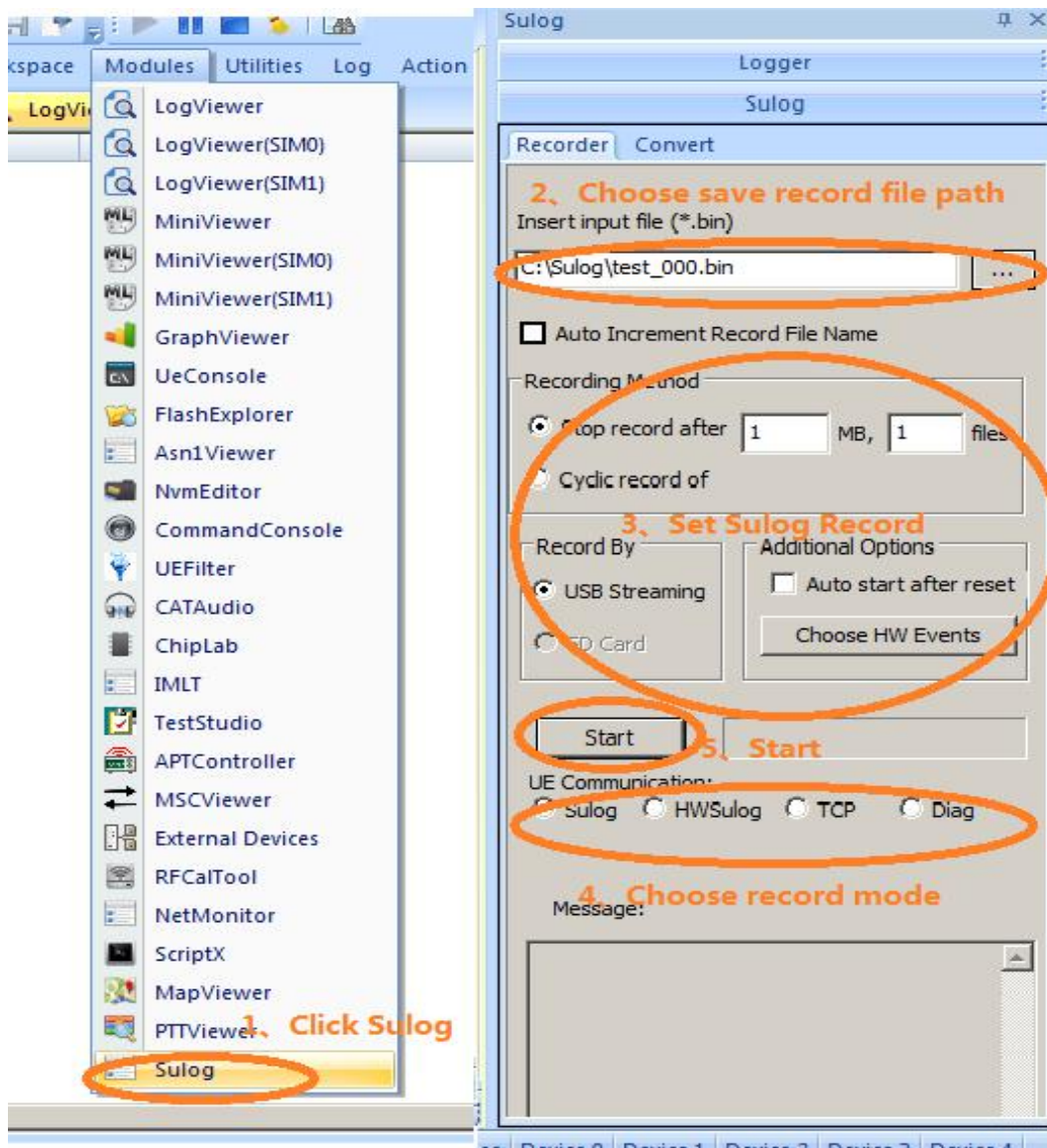
3, Clear: Viewers clear display and Logger change to write a new ICL file.

6 Sulog Execution

6.1 Sulog Execution

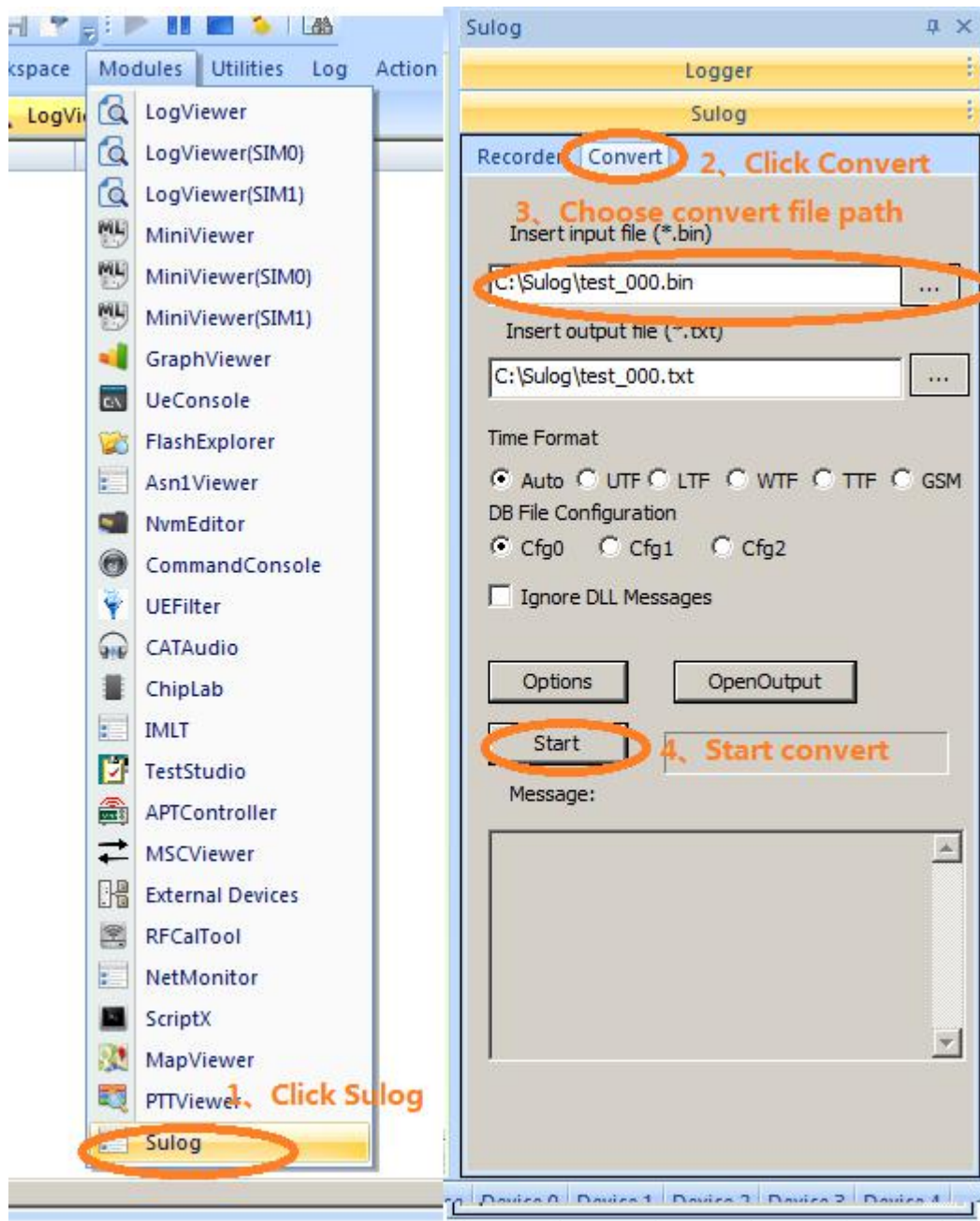
i Please install Sulog driver before using Sulog.

To activate CATStudio Sulog, please perform the following steps:



6.2 SulogConvert Execution

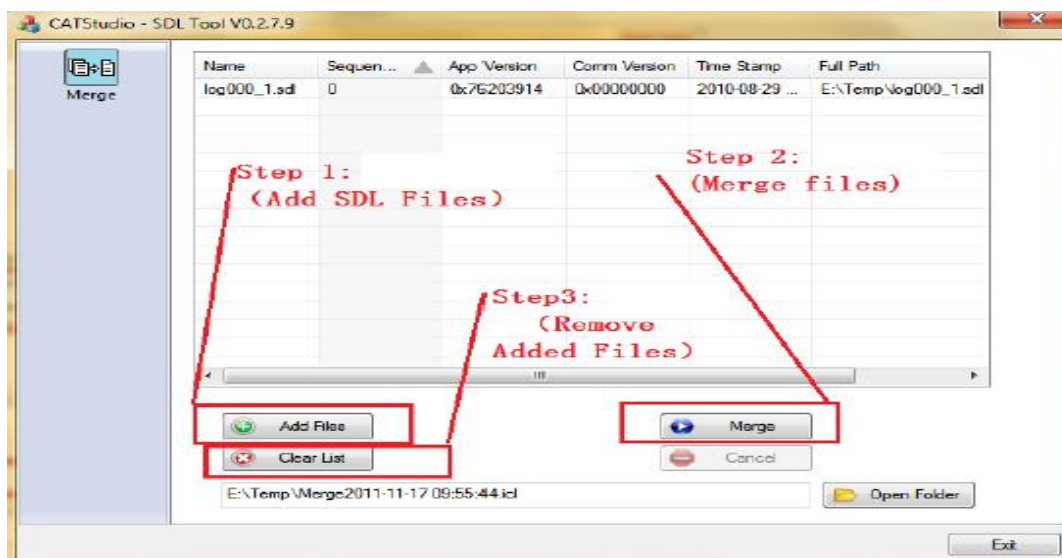
To activate CATStudio SulogConvert, please perform the following steps:



7 SDL Tool Execution

To activate CATStudio SDL Tool, please perform the following steps:

- 1、Click Menu Utilities->SDL Tool



8 Appendix

8.1 Report issues

Please visit webs: <http://support.asrmicro.com>.

Or submit an issue at CQ web: <http://sh2-cq01.asrmicro.com/cqweb/login>.

8.2 Update this document

Please send updated document to lianghuxu@asrmicro.com with "PHS CATStudio document update: ..." title for merging, and you will receive merged latest version.

8.3 Revision History

Document No and Revision	Author	Description	Date
1.0	Jiajia Huo	Initial version	2013-7-31
2.0	Jiajia Huo	Update Version	2013-8-27
3.0	Zuning Zhou	Update Version	2019-2-15