



CatsGate in CATStudio
UserGuide
v1.0

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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Preface

CatsGate is a single application as a external control module of CATStudio, it could control some features of CATStudio by command line. End user could remote control CATStudio by call the CatsGate with system Command Processor or 3rd part software.

CatsGate is a simple comman line application without GUI. It does the specific operation by application reference, and prints the result. It executes only one operation with once launching, and auto exit after printed the operation result. You need re-launch it and provide another reference, if you want execute a new operation.

2 Usage

2.1 Format of reference

All references of CatsGate is started by "--", the reference type and ':' behind it. Behind ':', it is the reference fact value. Every reference is connected by space, and they are not case sensitive.

2.2 Main feature usage

Currently, the CatsGate supported these features: Start Log, Stop Log, Pause Log, Clear Log, Send AT Command, Query LTE ERRC Connect States, Save Log As Text. And some new feature will be supported in the future. The following is the usage detail of these features.

2.2.1 Initialize work environment

Before control the CATStudio by CatsGate, please launch the CATStudio(On-line or Off-line mode is OK, it is based on specific test case), open the TestStudio under the menu "Module". Then confirm the necessary device was connected successfully (On-line mode), or the necessary log was loaded normally (Off-line mode).

2.2.2 Start Log

Execute the following command line in the system Command Processor:

```
CatsGate.exe --Command:StartLog
```

After success, it will print "StartLog Success!" then exit.

2.2.3 Stop Log

Execute the following command line in the system Command Processor:

```
CatsGate.exe --Command:StopLog
```

After success, it will print "StopLog Success!" then exit.

2.2.4 Pause Log

Execute the following command line in the system Command Processor:

```
CatsGate.exe --Command:PauseLog
```

After success, it will print "PauseLog Success!" then exit.

2.2.5 Clear Log

Execute the following command line in the system Command Processor:

```
CatsGate.exe --Command:ClearLog
```

After success, it will print "ClearLog Success!" then exit.

2.2.6 Send AT Command

The feature "Send AT command" needs a group references, it includes Command, DeviceID, ATCommand, WaitATResponse, TimeOut. Every reference is explained as the following:

- Command:** It indicates the main feature command that needs CatsGate to execute.
- DeviceID:** Send the AT command to witch device that is CATStudio connected.
- ATCommand:** The AT command will be sent.
- WaitATResponse:** To wait some response strings from the device, if needs to wait more than one response, please use '#' to connect them.
- TimeOut:** Wait time out, the unit is millisecond, and it is optional.

This is a example, send command "AT" to Device 0 in CATStudio, then wait "OK" and "Error", the time out is 8 seconds, the command string in system Command Processor is:

```
CatsGate.exe --Command:SendATCommand --DeviceID:0 --ATCommand:AT --WaitATResponse:OK#Error --TimeOut:8000
```

If send AT success and waited any response, it will print "SendATCommand Success!" and the waited AT response string. It above example, it waited "OK" from UE, so the printed information is:

SendATCommand Success!

AT response: OK

If the sending is fail or time out, it prints:

SendATCommand FAIL!

2.2.7 Query LTE ERRC Connect State

Query the connect state of LTE ERRC just need to use a regular command group. It includes Command, DeviceID and TimeOut, the following is the example:

Query the LTE ERRC connect state of Device 0, time out is 8 second, then execute:

```
CatsGate.exe --Command:QueryLteErrcConnectState --DeviceID:0 --TimeOut:8000
```

2.2.8 Serial Port Setting

This feature includes 2 parts: save MiniViewer log as text and save Asn1Viewer log as text. Please confirm the MiniViewer and Asn1Viewer was loaded before call this feature's command. This feature includes Command, Module and Path; the following is the reference explaining:

Module: Set which module will execute the save log as text operation, includes "MiniViewer" and "Asn1Viewer"

Path: Set the saved text file full path includes full path, file name, and file extension is .txt

This is an example:

Call MiniViewer to execute save log as text command, and save the log file to C:\MiniViewerLog.txt, so execute command:

```
CatsGate.exe --Command:SaveLogAsText --Module:MiniViewer --Path:C:\MiniViewerLog.txt
```

If success, it prints:

Save MiniViewer log as text Success!

If fail, it prints:

Save MiniViewer log as text FAIL!

*Notice:

If execute this feature under On-line mode, please send Pause Log or Stop Log to CATStudio firstly, it will make CATStudio stop/pause log printing, then this feature could work normally. After it is done, please send Start Log to re-print log. We suggest use pause log, it will just make CATStudio pause show the log, after re-start log, all received logs always will be showed in LogViewer.

3 Appendix

3.1 Report issues

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

Or contact ASR FAE/AE

Or please send email to lianghuxu@asrmicro.com with "PC Tools User Doc Issue/Update: ..." title

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

3.2 Update this document

Please send updated document to lianghuxu@asrmicro.com with "PC Tools User Doc Issue/Update: ..." title for merging, and you will receive merged latest version.

3.3 Revision History

Rev	Description	Date
1.00	Initial version	2015-9-1

