



Mobile TD/TTC/LTE

PC Tools for TD/TTC/LTE

Communication of ADB part User Guide

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

Doc Status: Communication of ADB part User Guide	Technical Publication:
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1 Preface

Catstudio ADB Communication is one part/interface of Communication module. It could do communication, data transferring and command sending/receiving for user between UE and PC by ADB interface. User could configure the connection parameter by UI.

Currently, it supported 2 setting types for connection:

- 1) Connection manually: User have to select the fact ADB device, Communication module will connect the specific device.
- 2) Connection automatically: This is the default setting in CATStudio, supports the “ASR ADB” device auto-detect and connect automatically.

2

How to connect ADB Device

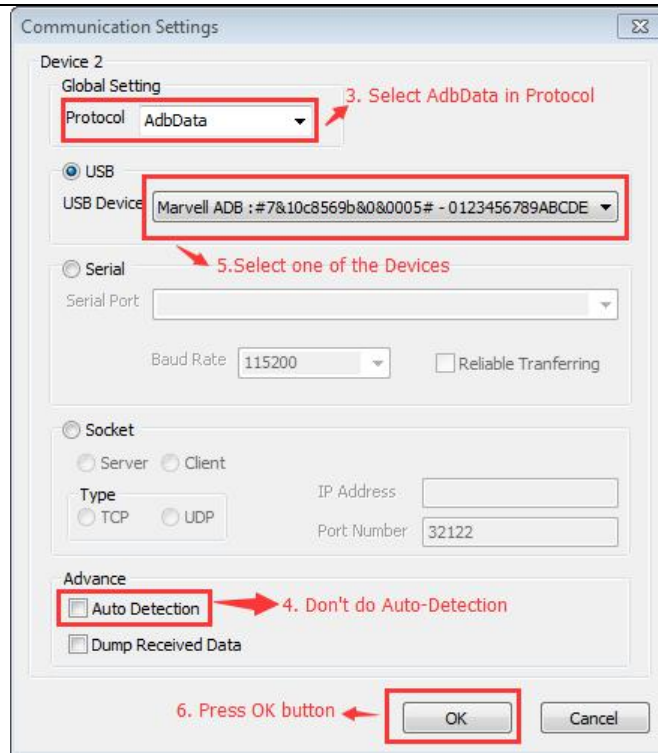
2.1 Connection setting Manually

2.1.1 Communication Setting

- 1、Active the Device Communication , On the right side of Catstudio, Check on the Device need to be connected, then click the “Setting” button to configure the parameter, like the following:



- 2、On Communication Setting dialog, set the ADB connection parameter:



3、 On status bar of Catstudio, it will show the current connections' status.

-  Device 1 : Gray means the device is not checked on
-  Device 0 : Red means the device can't be connected successfully
-  Device 0 : Green means the device is connected successfully.

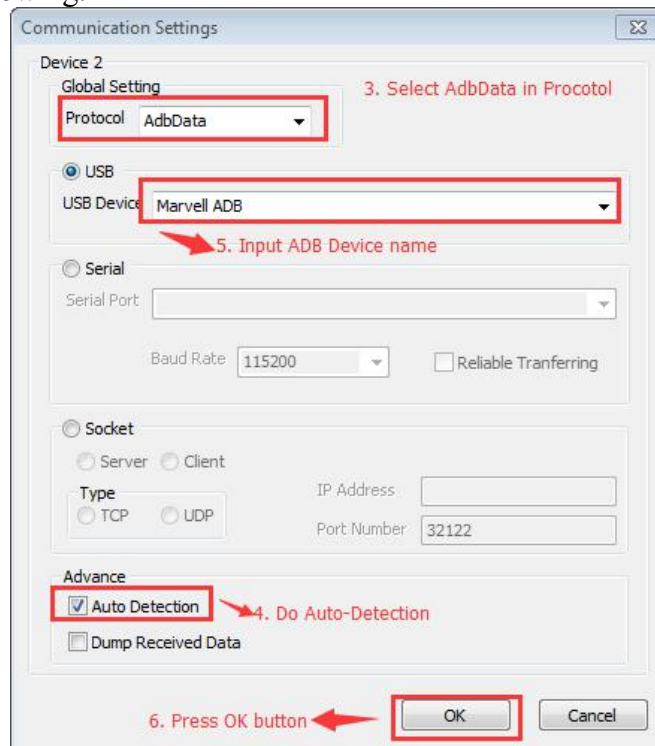
2.2 Connection Setting Automatically

2.2.1 Communication Setting

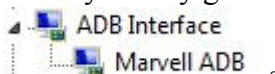
1、 Active the Device Communication ,On the right side of Catstudio, Check on the Device need to be connected, then click the “Setting” button to configure the parameter, like the following:



2、Set the ADB connection parameters in Communication Setting dialog, like the following:



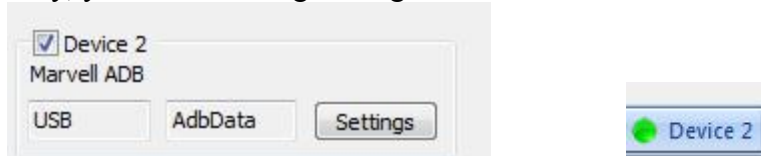
On the “Communication Settings” dialog, Input the device name on “USB Device” input box, you may get the actual device on Device Manager. Like the following:



3 ADB in UeConsole

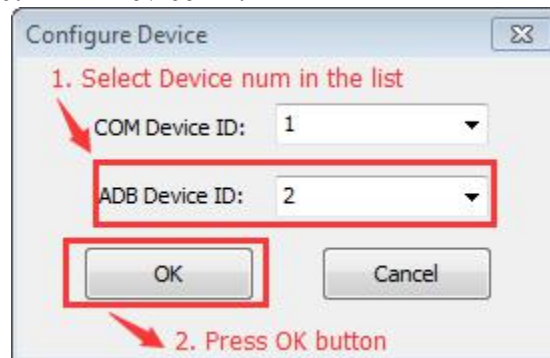
3.1 Connect to ADB device

In Communication Setting dialog, connect to the specify ADB device. If connect successfully, you will see the green light.



3.2 UeConsole configuration

Open UeConsole dialog in CatStudio menu's Modules part. Open UeConsole Configure Device dialog, select ADB Device ID.

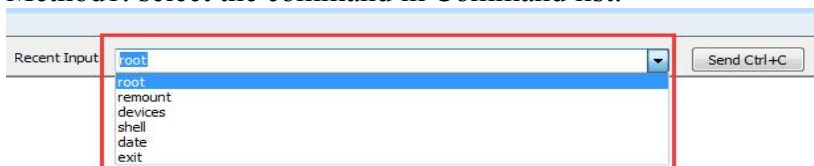


Switch Command type to ADB command type.

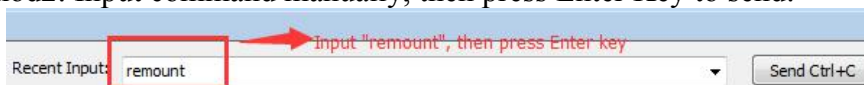


3.3 Send ADB Commands

Method1: select the command in Command list:



Method2: Input command manually, then press Enter Key to send:



3.4 Check ADB Commands' log

UeConsole1					
Index	Device ID	Device Name	Direction	UE Time	Message Contents
	2	Marvell ADB	Send to UE	12:23:02.930	root
2095350	2	Marvell ADB	Receive from UE	12:23:03.250	adb is already running as root
2095351	2	Marvell ADB	Receive from UE	12:23:03.250	E:\Project\CATStudio\NT\src\CATStudio
	2	Marvell ADB	Send to UE	12:23:06.080	remount
2095353	2	Marvell ADB	Receive from UE	12:23:06.250	remount succeeded
2095354	2	Marvell ADB	Receive from UE	12:23:06.250	E:\Project\CATStudio\NT\src\CATStudio

3.5 ADB shell mode

Step1: Send “shell” command , then ADB switch shell mode;

Step2: Send shell command under shell mode;

Step3: Send “exit” command to exit ADB shell mode.

Sample: Send “shell” switch to ADB shell mode, then send “date” and “pwd” command, send “exit” to exit shell mode.

UeConsole1					
Index	Device ID	Device Name	Direction	UE Time	Message Contents
	2	Marvell ADB	Send to UE	12:27:14.760	shell
2095356	2	Marvell ADB	Receive from UE	12:27:15.250	root@pxa1L88dkb:/ #
	2	Marvell ADB	Send to UE	12:27:22.080	date
2095358	2	Marvell ADB	Receive from UE	12:27:22.250	date
2095359	2	Marvell ADB	Receive from UE	12:27:22.250	Fri Jan 2 09:23:23 CST 1970
2095360	2	Marvell ADB	Receive from UE	12:27:22.250	root@pxa1L88dkb:/ #
	2	Marvell ADB	Send to UE	12:27:31.811	pwd
2095362	2	Marvell ADB	Receive from UE	12:27:32.251	pwd
2095363	2	Marvell ADB	Receive from UE	12:27:32.251	/
2095364	2	Marvell ADB	Receive from UE	12:27:32.251	root@pxa1L88dkb:/ #
	2	Marvell ADB	Send to UE	12:27:36.961	exit
2095366	2	Marvell ADB	Receive from UE	12:27:37.251	exit
2095367	2	Marvell ADB	Receive from UE	12:27:37.251	E:\Project\CATStudio\NT\src\CATStudio

3.6 Stop handle continuous ADB command

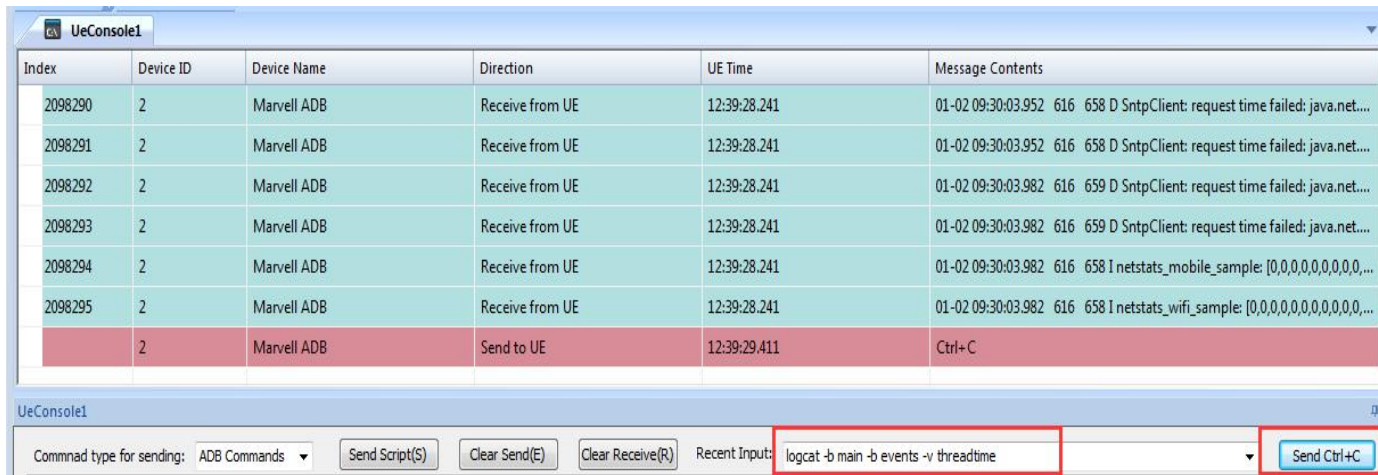
Some ADB commands is continuous commands, the commands' log is continuous. For stop these commands, user can stop handling by himself.

Sample:

Step1. Send “logcat -b main -b events -v threadtime” command;

Step2. Check ADB log output;

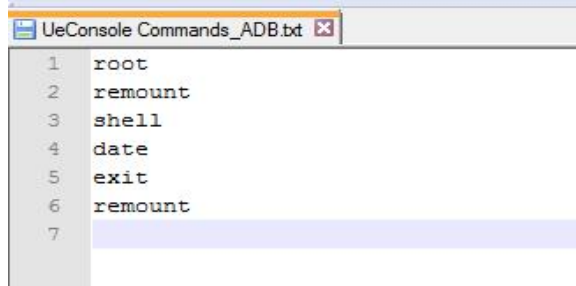
Step3. Press “Send Ctrl+C” button to stop the log output.



3.7 Load script for ADB commands

3.7.1 Create ADB commands script

Input the ADB command in txt file. Like follows:



3.7.2 Load the specific script file



3.7.3 Send the ADB Commands in script



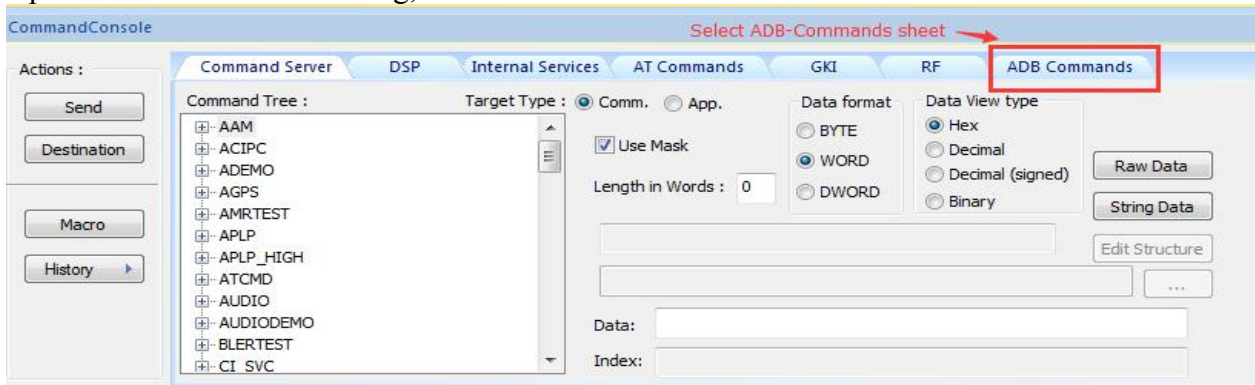
3.7.4 Check the ADB commands' log

Index	Device ID	Device Name	Direction	UE Time	Message Contents
	2	Marvell ADB	Send to UE	16:46:34.977	root
9	2	Marvell ADB	Receive from UE	16:46:35.839	adbd is already running as root
10	2	Marvell ADB	Receive from UE	16:46:35.839	E:\Project\CATStudio\NT\src\CATStudio
	2	Marvell ADB	Send to UE	16:46:35.985	remount
12	2	Marvell ADB	Receive from UE	16:46:36.865	remount succeeded
13	2	Marvell ADB	Receive from UE	16:46:36.865	E:\Project\CATStudio\NT\src\CATStudio
	2	Marvell ADB	Send to UE	16:46:36.985	shell
15	2	Marvell ADB	Receive from UE	16:46:37.865	root@pxa1L88dkb:/ #
	2	Marvell ADB	Send to UE	16:46:37.985	date
17	2	Marvell ADB	Receive from UE	16:46:38.865	date
18	2	Marvell ADB	Receive from UE	16:46:38.865	Fri Jan 2 09:51:50 CST 1970
19	2	Marvell ADB	Receive from UE	16:46:38.865	root@pxa1L88dkb:/ #
	2	Marvell ADB	Send to UE	16:46:38.985	exit
21	2	Marvell ADB	Receive from UE	16:46:39.865	exit
22	2	Marvell ADB	Receive from UE	16:46:39.865	E:\Project\CATStudio\NT\src\CATStudio
	2	Marvell ADB	Send to UE	16:46:39.985	remount
24	2	Marvell ADB	Receive from UE	16:46:40.865	remount succeeded
25	2	Marvell ADB	Receive from UE	16:46:40.865	E:\Project\CATStudio\NT\src\CATStudio

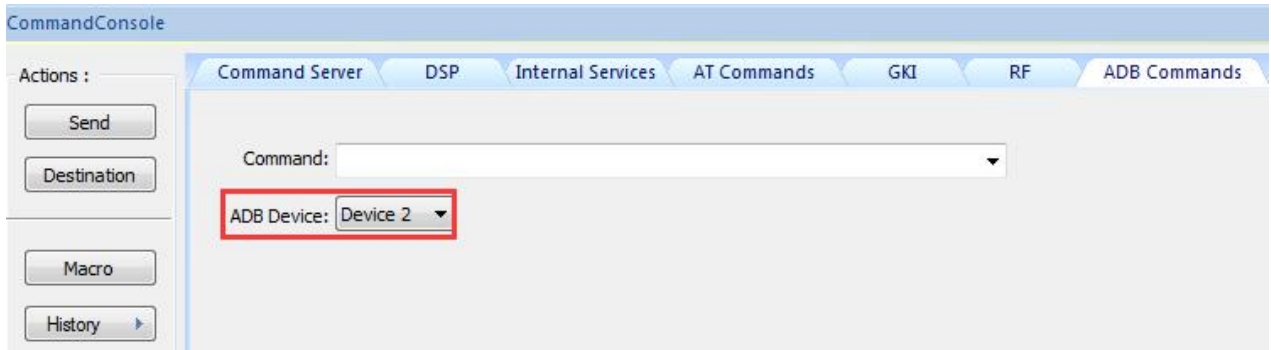
4 ADB in CommandConsole

4.1 Open the ADB in CommandConsole

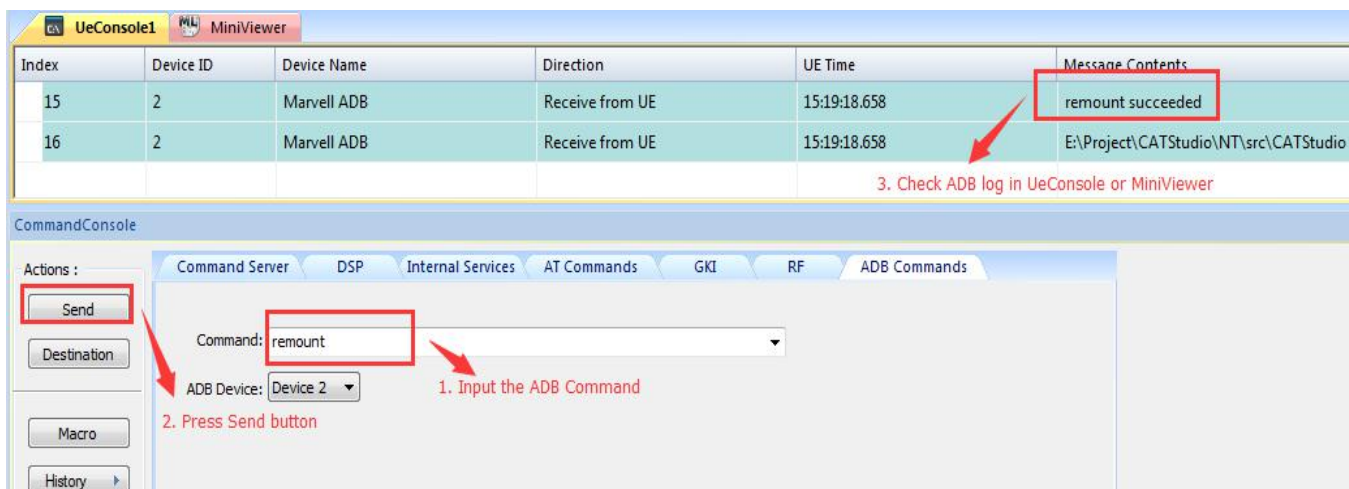
Open CommandConsole dialog, select ADB Commands sheet.



4.2 Select ADB Device



4.3 Send ADB Commands



Index	Device ID	Device Name	Direction	UE Time	Message Contents
15	2	Marvell ADB	Receive from UE	15:19:18.658	remount succeeded
16	2	Marvell ADB	Receive from UE	15:19:18.658	E:\Project\CATStudio\NT\src\CATStudio

3. Check ADB log in UeConsole or MiniViewer

CommandConsole

Actions : **Send** (highlighted)

Destination

Macro

History

Command: **remount** (highlighted)

ADB Device: Device 2

1. Input the ADB Command

2. Press Send button

5 Appendix

5.1 Report issues

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Or contact Marvel 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>.

5.2 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.

5.3 Revision History

Rev	Description	Date
1.00	Initial version	2015-05-06