



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 前言

Catstudio ADB Communication 是 Communication 模块中 ADB 的部分。它为用户提供一种 ADB 接口，负责 UE 与 PC 之间通信、数据传输、收发命令等功能。用户可通过可视化界面配置连接参数。

目前 Catstudio Communication 支持两种连接参数配置方式：

- 1) 手动配置参数连接：需要用户指定 ADB 设备的名称，Communication 是通过完全匹配的驱动名字去连接该设备。每次使用都需要手动配置。
- 2) 自动配置参数连接：Catstudio 默认配置，支持 ASR ADB 驱动自动匹配，自动连接。

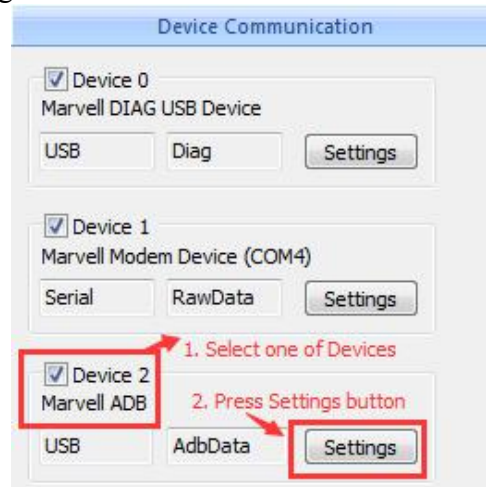
2

连接方法

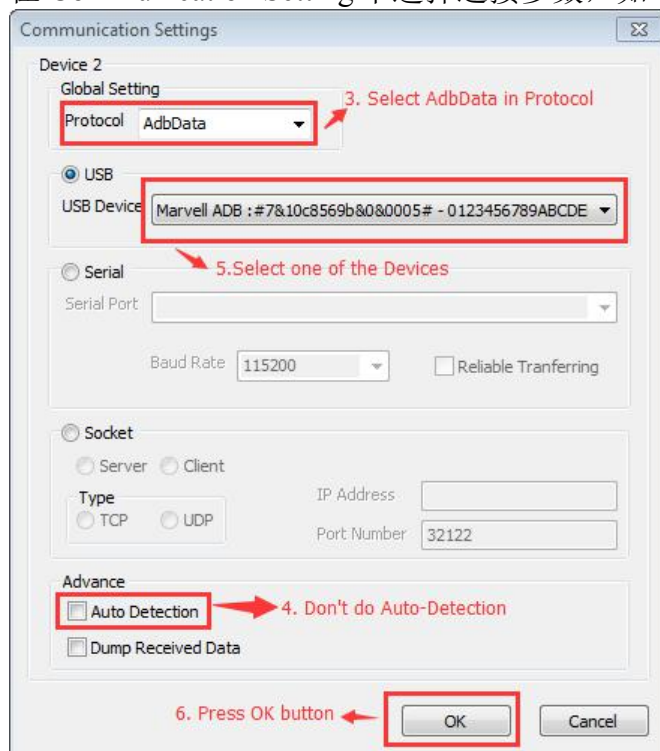
2.1 手动连接参数设置

2.1.1 Communication Setting

- 1、激活 Device Communication ,在 Catstudio 右侧，勾选需要连接的 Device ，再点击 Setting 配置连接参数，如下图所示：



2、在 Communication Setting 中选择连接参数，如下图所示



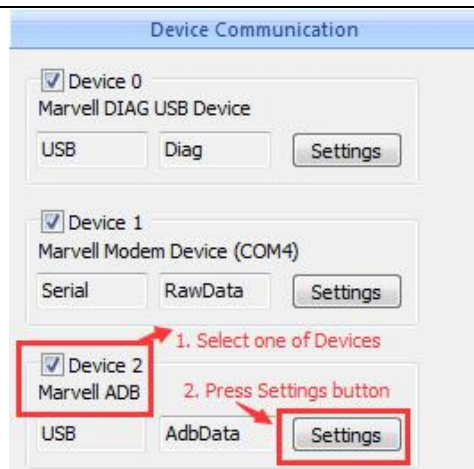
3、在 Catstudio 状态栏，查看连接状态



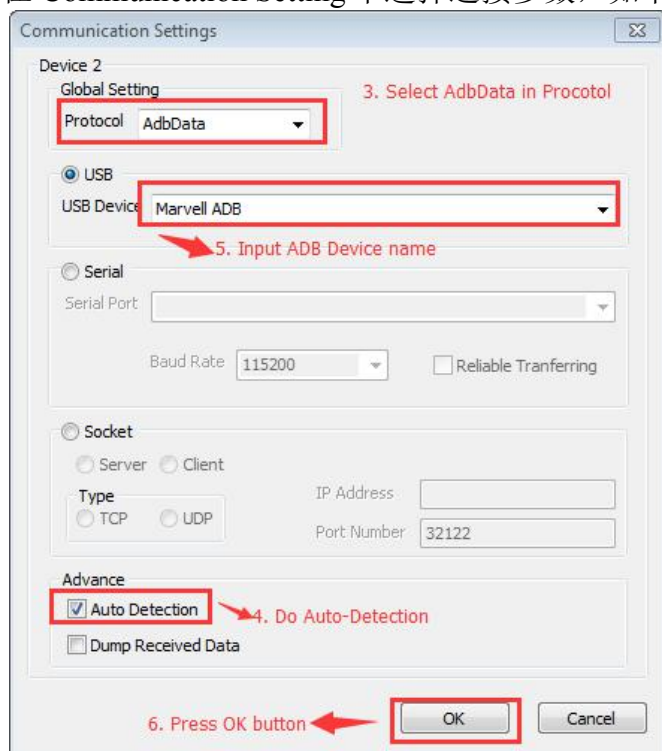
2.2 自动连接参数设置

2.2.1 Communication Setting

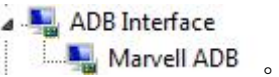
1、激活 Device Communication ,在 Catstudio 右侧，勾选需要连接的 Device ，再点击 Setting 配置连接参数，如下图所示：



2、在 Communication Setting 中选择连接参数，如下图所示：



上图中 ADB Device 输入框中输入 Device Name 名字，可从设备管理器中获得，如

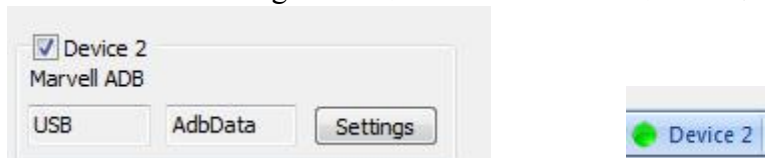
图所示：。

3

UeConsole 中 ADB 的使用方法

3.1 连接 ADB 设备

通过 Communication Setting 连接指定设备，连接成功后右下角应该为绿灯。



3.2 UeConsole 配置

从 Modules 下拉菜单中打开 UeConsole，打开 UeConsole 的 Configure Device 对话框，配置 ADB 对应的 Device ID。

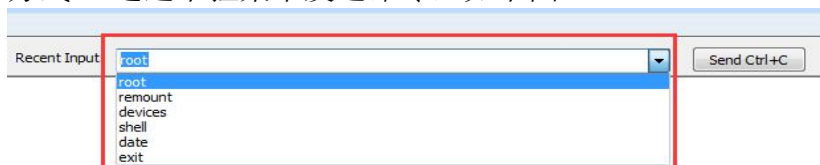


在 Command type 中选择 ADB command type



3.3 发送 ADB 命令

方式 1: 通过下拉菜单发送命令，如下图。



方式 2: 手动输入命令，按回车键发送，如下图。



3.4 检查 ADB 命令的 log

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 的 shell 模式

步骤 1: 通过 shell 命令进入 ADB 的 shell 模式;

步骤 2: 发送命令;

步骤 3: 通过 exit 命令退出 ADB 的 shell 模式。

示例如下: 通过 shell 进入 shell 模式, 发送 date 和 pwd 命令, exit 退出 shell 模式。

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@pxa1188dkb:/ #
	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@pxa1188dkb:/ #
	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@pxa1188dkb:/ #
	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 停止处理 ADB 命令

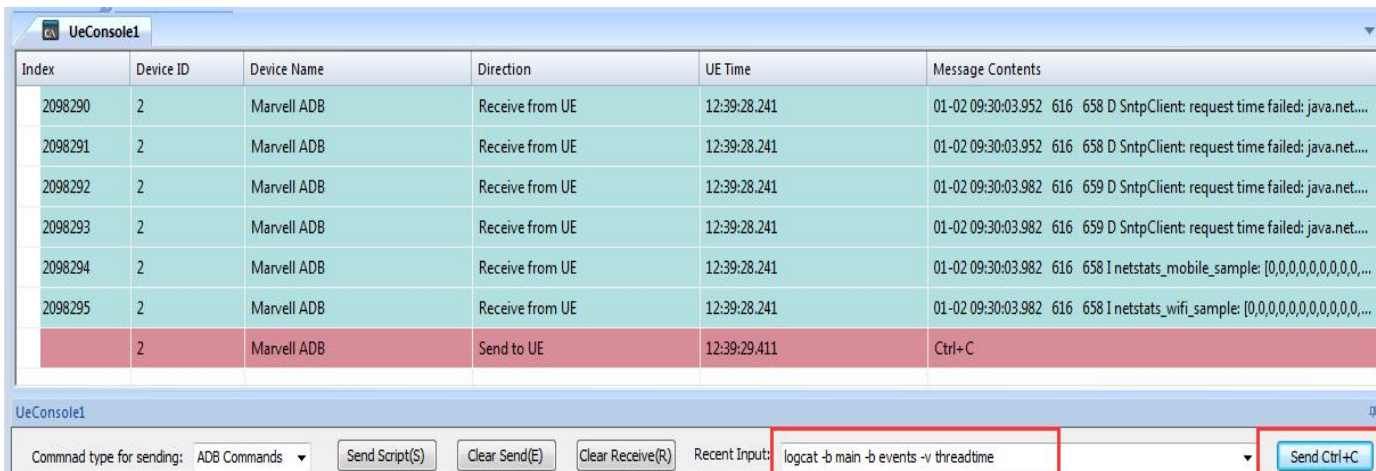
有些 ADB 的命令需要不间断的处理 ADB 的打印信息。为了结束这种命令对控制台的占用，可以让用户自行结束该命令。

示例如下：

步骤 1. 发送 `logcat -b main -b events -v threadtime` 命令；

步骤 2. 等待 ADB log 的打印输出；

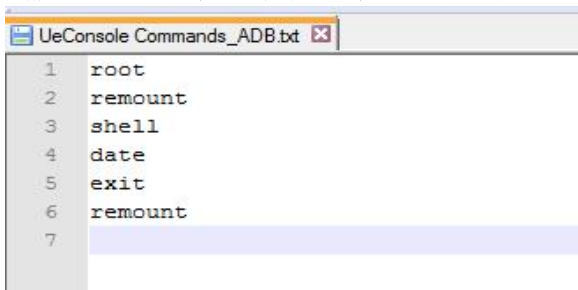
步骤 3. 用户根据需要，通过 Send Ctrl+C 的按键结束该条命令的打印输出；



3.7 Load ADB 命令脚本

3.7.1 创建 ADB 命令脚本

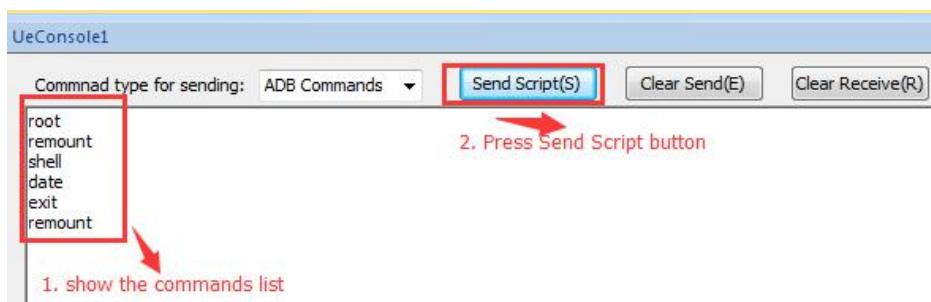
在 txt 文件中输入 ADB 命令，每个命令为一行。如下图所示：



3.7.2 点击 UeConsole 的 Load Script 按钮，选择脚本文件



3.7.3 发送脚本命令



3.7.4 检查脚本 ADB 命令的 log

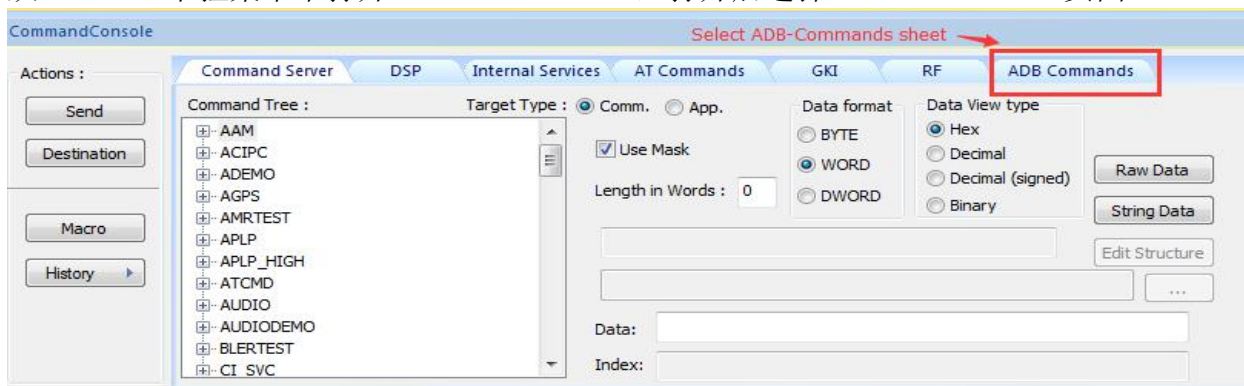
UeConsole1					
Index	Device ID	Device Name	Direction	UE Time	Message Contents
	2	Marvell ADB	Send to UE	16:46:34.977	root
9	2	Marvell ADB	Receive from UE	16:46:35.839	adb is already running as root
10	2	Marvell ADB	Receive from UE	16:46:35.839	E:\Project\CATStudio\NT\src\CATStudio
	2	Marvell ADB	Send 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

CommandConsole 中 ADB 的使用方法

4.1 打开 ADB Commands 页面

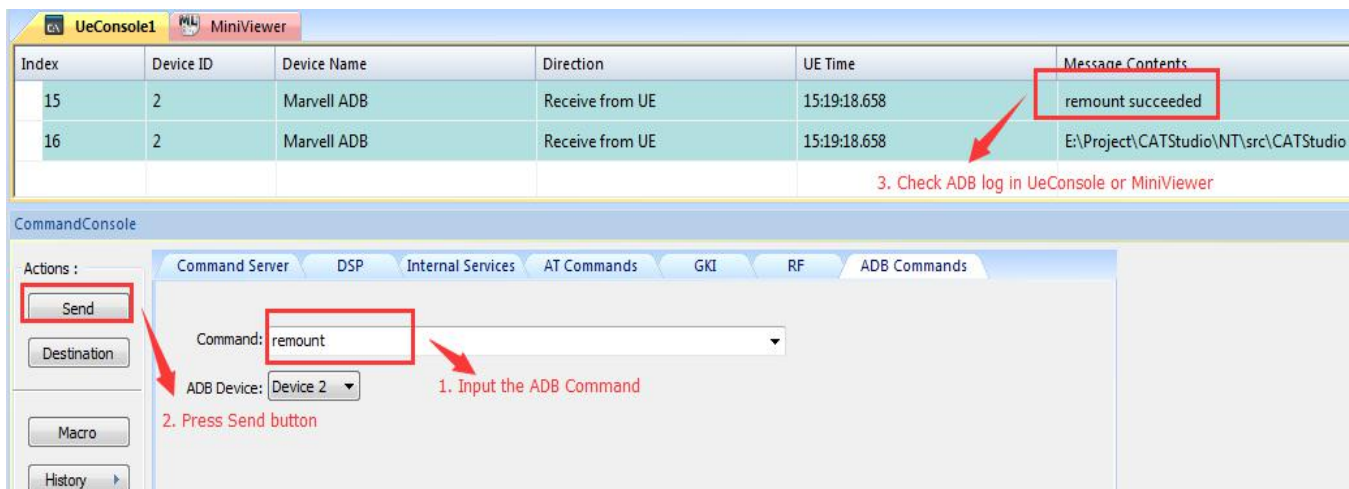
从 Modules 下拉菜单中打开 CommandConsole，打开后选择 ADB Commands 页面



4.2 选择 ADB Device



4.3 发送 ADB 命令



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**

Destination

Macro

History

Command: remount

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 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>.

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