Spreadtrum Platform SC9832 AndroidM Slog User Guide

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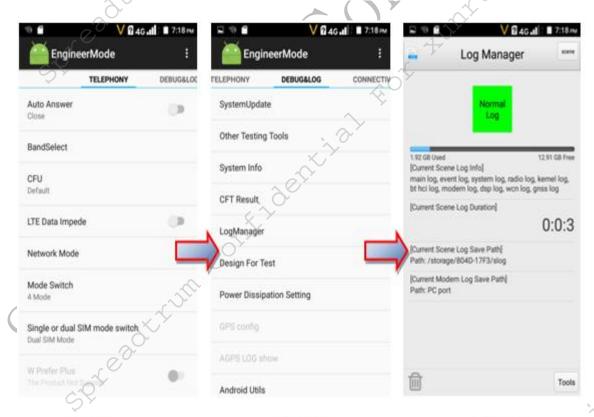


1. Log Manager Introduction

Log Manager is the most basic way to crawl the log of Spreadtrum platform,we only need to crawl the complete slog in most of the conventional tests,the major difference between the Log Manager of Android M Version and the old version of Slog is that a key to set the scene of the log grabbing,and also it's use to make the operations easier and faster, the grabbing log scene will be described in section 2.1.

2. Log Manager Grab Method

Open Log Manager and set method : enter the mobile phone dial pad , input * # * # 83781 # * # * -> DEBUG & LOG -> LogManager



Picture1 Picture2 Picture3

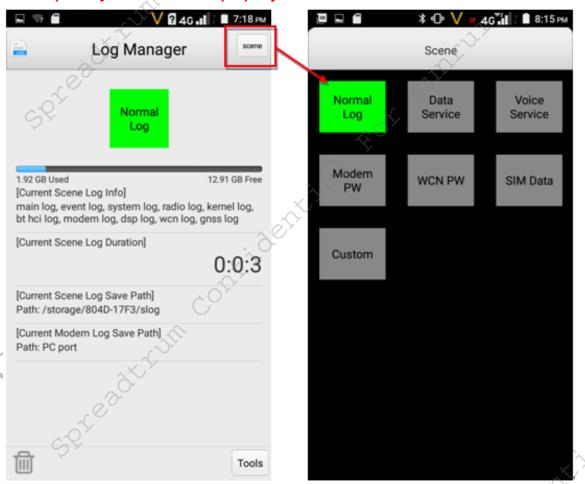
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2.1. Log Manager crawling scene interface

When clicking "Scene" on the top of the right corner , it will direct to the scene selection , it consists of normal log , data service , voice service , modem power consumption, wen power consumption, sim interactive data , customize. Normal log is the default scene, these scenarios are mutually exclusive, that is, click on the any scene button in the scene selection , later the configuration options were changed, and the new scene is loaded , the old scene configuration is goes to be off. If you select a scene A , reboot the machine , after reboot the machine the scene A is still valid .

NOTE: modem power, WCN power, SIM interaction data the three scenarios are temporarily unable to work properly.



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2.1.1. detailed description of the scene

/ <u></u>		
Slog Crawling	Scene function	Suitable test
Scene		scenario
Normal Log	The most common scenario , the slog	Conventional tests,
	can solve most problems , but	such as video
	considering the large CAP package	playback testing,
	and the IQ data , we don't put them in	Contacts testing,
	a conventional log scenario, the data	etc.
	service will be placed CAP scenario	
	crawl , Q when the voice service	
	placement scenario crawl , when	
	testing wifi ,Satisfied Research and	`\
XXX	development necessary requirement,	~~~
0,0	we also need to crawl wifi air interface	2:2-
	data packet , the switch button of the	*
2x	scene in userdebug version is enabled	
	by default , the icon is bright ; the	
	default user version is off, the icon is	
	gray.	
data service	It's used to crawl Packet log	For exmple, browse
		the Web browser,
		you need to crawl
	~	network packets log
voice service	When making voice calls, it's used to	For example, the
7	crawl voice quality of log	presence of
		measurement , the
00		phone call issue
~		noise occurs , the
		current sound, etc.
		· · · · ·



	<u> </u>	
modem power	This scene is caught by uart modem	For long standby
consumption(the	standby power consumption log, when	and other issues, if
scenario is	you select the scenes , you need to	you need to look at
temporarily	use a serial cable to connect PC to	modem side
unable to work	crawl modem log	standby log, then
properly .)	× ×	you can select the
		scene using uart
		crawl modem log,
	. 50	confirm whether the
	× × ×	modem wake affect
	• (power consumption
WCN power	This scene is caught by uart WCN	For long standby
consumption(the	standby power consumption log, when	and other issues, if
scenario is	you select the scenes , you need to	you need to look at
temporarily	use a serial cable to connect PC to	WCN side standby
unable to work	crawl WCN log	log, then you can
properly .)	\$°'	select the scene
		using uart crawl
	X X X X X X X X X X X X X X X X X X X	WCN log, confirm
		whether WCN wake
		affect power
		consumption
sim interactive	This scene is used to crawl sim card	To analyze
data(the	interactive data	problems related to
scenario is		the impact of SIM
temporarily		card contents
unable to work		
properly .)		•
-		



→		
customize	This scene is a particular scene ,	All
\succ	compared to other scenarios , it is	
	unusual in that :	,
	(1) Other scenes are lit after clicking	
	log indicating the start of the scene	
	caught , catch log dimmed means	
	stop , but the "Custom" button after	
	clicking into the scene a rich menu	
	interface, where custom make all log	
	switch setting.	
	(2) Since this as a scenario , it is	
	mutually exclusive with other scenes ,	
×C	there are a set of independent scene	Ÿ
9,5	configuration file . But this scenario	
	compared to other scenes may be	2:7.5
C 2 3	rewritten several times , once for each	
	user to customize settings for the	
	scene configuration file is modified	
	once , while slog main interface of the "	
	current scene log content information "	
	is updated to display a custom scene	
	which caught log.	
	(3) Since the scenario provided to the	
	user to configure certain active log	
	switch engineering background mode	
	will modify the configuration file , so	
	the scene configuration file takes a	
55	comprehensive configuration items,	*.
•	you need to configure a custom scene	×

see 2.1.2section.



2.1.2. Log Manager custom scene interface

		Android Log Branche	ie.
		Main Log	
		System Log	
		Radio Log	
		Event Log	$\bigcirc \circ)$
		Kernel Log	
		Android Log Level	
		2-VERBOSE	
Custom Scene Con	mmit	Y	
		③ 3-DEBUG	
Android Log	0 ,0	⑤ 5-ERROR	
TCP/IP Log	0	O S EIIIIOII	
BT HCI Log	(A)		
more	£		
Modern Log Settings			
Modem Log	0)	10 M-1-	
TCP/IP Log	0	IQ Mode	
more	>	Log Capacity Setting	•
DSP Log Settings			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
DSP Log	0)		
DSP Log Output Mode	>		
WCN Log Settings			
WIFI/BT Log	0)	4.1	
GPS Log	0)	Output from UART	
2 x		C Salpar III Salt	
		Output with Modem I	Log
		<u> </u>	

> AP Log Settings menu content

■ Android Log->turn on android log , android log include Main Log、System Log、

Radio Log, Event Log, Kernel Log

- TCP/IP Log->turn on android cap log, network packet log
- BT HCI Log-> Bluetooth access log
- More->Android Log Branches, underneath branches of android log were Main Log、

System Log, Radio Log, Event Log, Kernel Log

■ More->Android Log Level, underneath branches of android log output stage

➤ Modem Log Settings menu content

- Modem Log -> Arm log, turn on the button, grab Arm log
- TCP / TP Log-> turn on modem cap log,modem network packet log



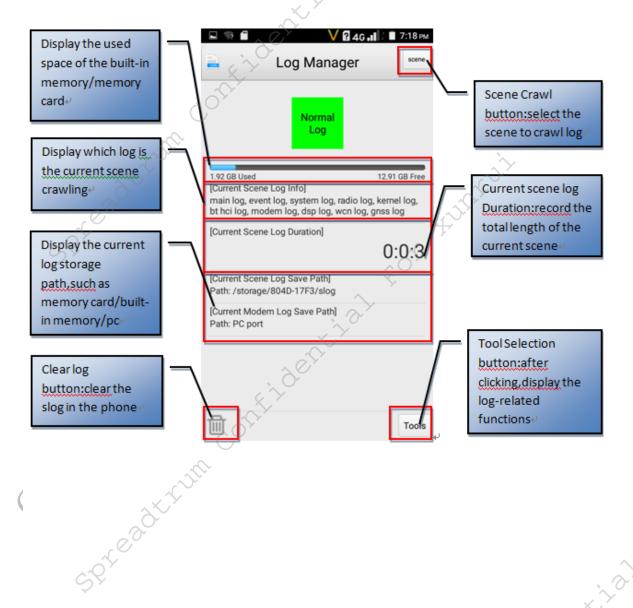
- More->IQ mode, Turn on IQ data capture, such as call audio mem log
- More->Log storage capacity setting, to set how lager your modem log to save a single file size, SD / data partition of the total log size and log storage cycle whether to save
- **DSP Log Settings menu content**
 - DSP Log->controls dsp log whether output
 - DSP Log Output Mode-> Setting dsp log output method, set dsp log output together with the arm log, or set dsp log crawling through uart port
- WCN Log Settings menu content
 - WIFI / BT Log- >CP2 Log, control WIFI and BT log output

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2.2. Log Manager main interface

The most important interface buttons placed in the middle of a scene, the main function of the button is dynamic (explained in Section 2.1 has been done), the default is the corresponding "normal log", the main crawl android log, arm log, wcn log, dsp log. Grasping log, the button is light; closed log crawl, the button is grayed out.

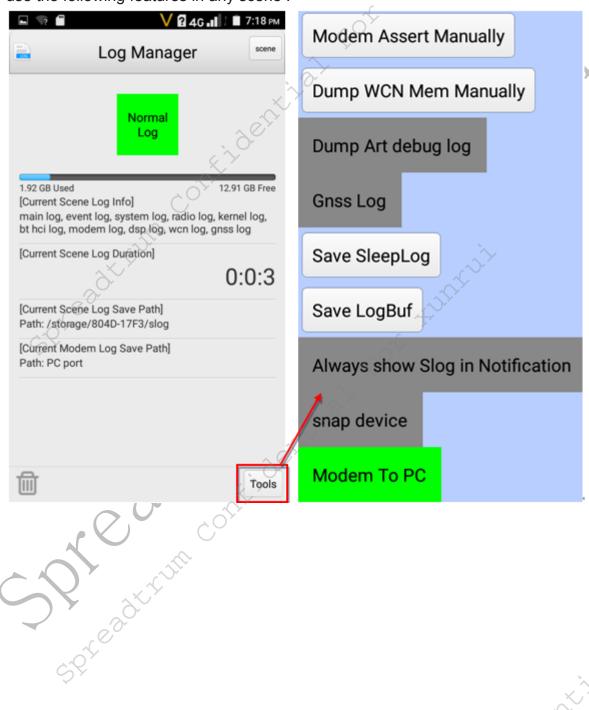


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2.3. Log Manager Tools Function Introduction

These functions are not mutually exclusive relationship scenarios that you can use the following features in any scene .



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2.3.1. detailed description of the Log Manager Tools

Log Manager tools	Log Manager Tools Function	
Designation	Introduction	
Modem Assert manually	Manual trigger modem assert, userdebug	
	version manifestations of modem assert,	
	dump out the modem memory information,	
	user version manifestations of modem reset,	
>	re-election of the mobile phone network	
Dump WCN Mem Manually	Manual dump WCN Mem log, WCN Mem	
	log contains FM, GPS, BT, WIFI of Memory	
	log, when the phone WCN module is unable	
	to open , etc.,the button can manually dump	
XXX	WCN Mem log	
Dump Art Debug Log	For debugging problems related to the	
200	virtual machine , click on the switch , the	
$\hat{\mathcal{O}}_{\lambda}$	phone will restart, the button will be lit for	
^	gripping virtual machine log	
GNSS log	Crawl GNSS positioning informations	
Save Sleep Log	Sleep related Debug information of modem	
	for debugging modem power management	
	related issues	
Save LogBuf	Logbuffer data of modem	
Always show Slog in	When you click "Always show Slog in	
notification	notification", the button will be light, and in	
) y %	the status bar , there will be "SlogUI	
	Service" button, click on this button , you	
50°	can go directly to slog interface , you do not	
~	need to enter the engineering mode and	
	then enter slog	



Snap device	When you click "Snap device" , the button	
	will be light, and in the status bar , there will	
	be "SlogUI Snap" button, click on this	
	button, the phone will snap current	
	screenshot and save it , save in the folder	
	Slog under Misc path	
Modem To PC	When lit "Modem To PC", the phone will	
	make modem log output through a USB	
. 0	cable, no output to the built-in memory or	
	SD card , this time we need to use the PC	
6,00	Tools (armlog and Dsplog tool) crawling	
	modem log ; when " Modem to PC " after	
7. C. O. V.	blinking , the phone modem log will be	
9 ^x .	output to the built-in memory or SD card	

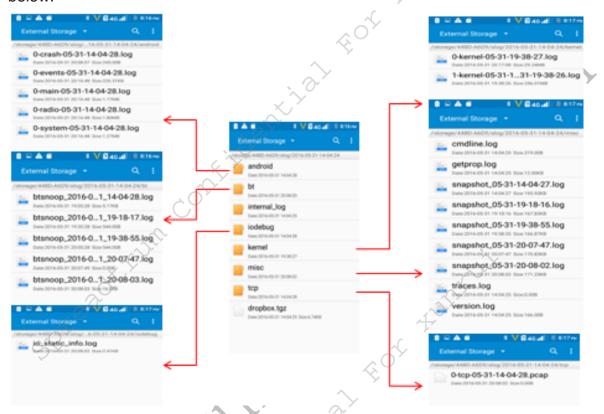
2.4. detailed description of the Log Manager directory

The Log Manager have three folders , the first one is named timestamp ,it is the current boot slog, and the second one is the last log, the log information before starting time , Last log can store log up to 10 times before the start information, and the limited number of each type of log file is 10 , and the last one is SYSDUMP, it is used to save phone Memory information after the phone happen sysdump,but the phone sysdump not occurred , the folder does not exist . After the phone power on , slog start in sdcard unmounted stage , slog log will be saved to the data partition data / slog directory , when it is detected that sdcard have mounted ,the log information will be saved on to slog sdcard / directory , so when conditions permit , it is recommended to use a batch file (Log4Android2PC) to export Slog.



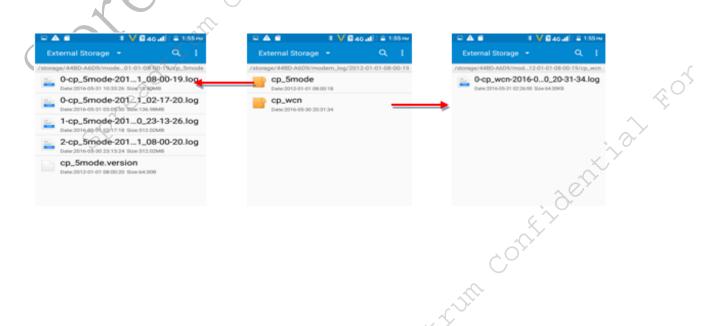
2.4.1. AP Log catalog

Path and the corresponding log of the AP side were stored in sd card as shown below:



2.4.2. Modem Log catalog

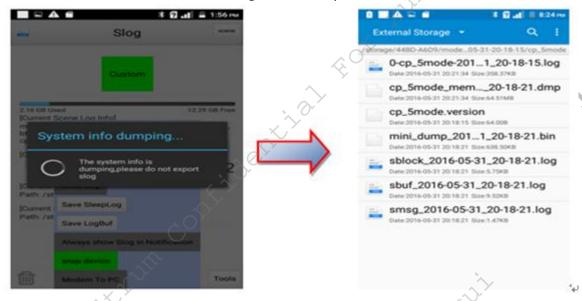
Path and the corresponding log of the Modem side were stored in sd card as shown below:





2.4.3. Log catalog after Modem assert

Like shown below in the modem log mini_dump ***. Bin file create

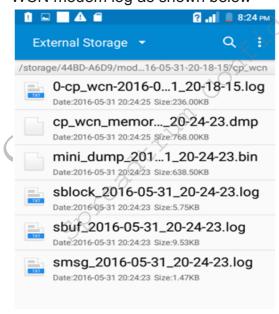


Modem dumping interface

the modem log mini dump ***. Bin file

2.4.4. Log catalog after WCN assert

When clicking the Dump WCN Mem Manually button of tools in New Slog, debug version wcn will assert occurs and .bin and .dmp file is generated in the WCN modem log as shown below



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2.4.5. Log catalog after sysdump

Path and the corresponding log Sysdump log were stored in sd card as shown



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