

The most important thing we build is trust



CN-003 Export TM500 Logs (EXT-MUE GUI)

June 2016





主要内容

- 配置TMA Preferences
- 基本TM500 logs
- 如何抓取基本TM500 logs
- 进阶TM500 logs
- TM500帮助文档





配置TMA Preferences

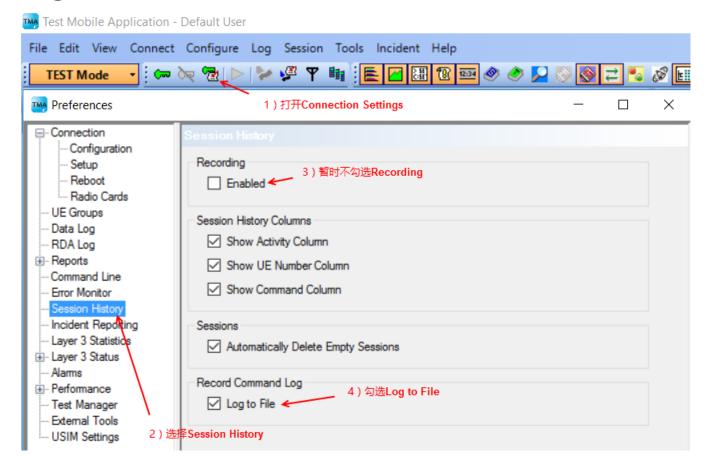
- 配置Session History
- 配置Incident Reporting
- 配置Reboot



配置Session History

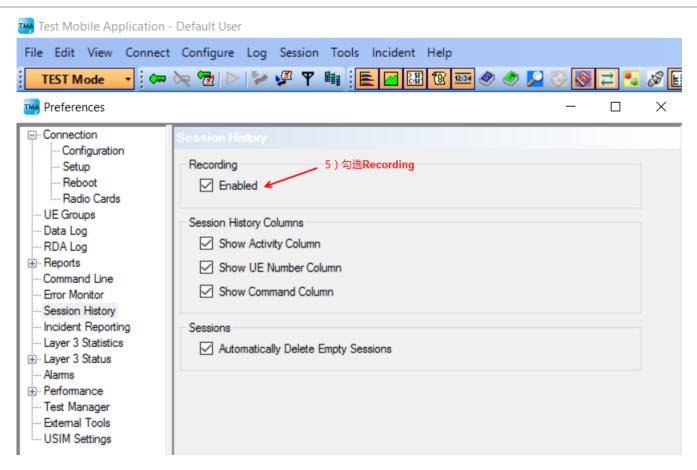


•如图步骤1至5所示配置Session History,同时使能Log to File和Recording.



配置Session History



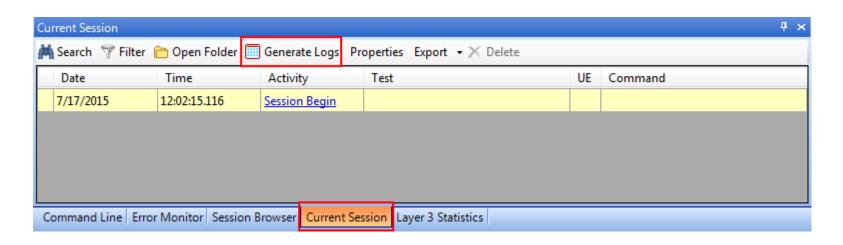


- **Log to File**: Command Line log以文本格式保存,文件保存在Current Session所在文件夹的根目录下。
 - 优点: 测试过程中可以通过文本编辑工具随时直接查看文件内容;

配置Session History



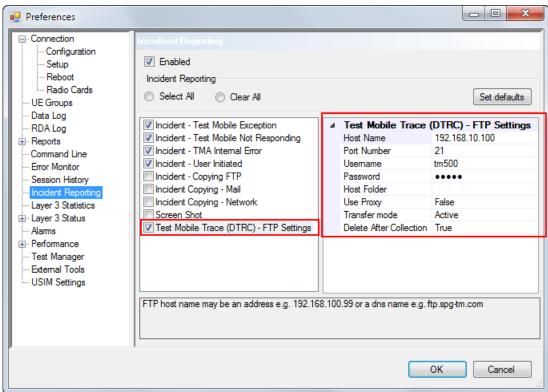
- 缺点: 无法完整过滤出某个UE对应的所有Command Line log。
- **Recording**: Command Line log以.xml格式保存,文件保存在Current Session所在的文件夹的SessionHistory子文件夹下。
 - 优点: 方便过滤过某个UE对应的所有Command Line log;
 - 缺点: 需要通过Current Session -> Generate Logs把Command Line log由.xml格式转换为 文本格式(.log),以方便查看。



配置Incident Reporting



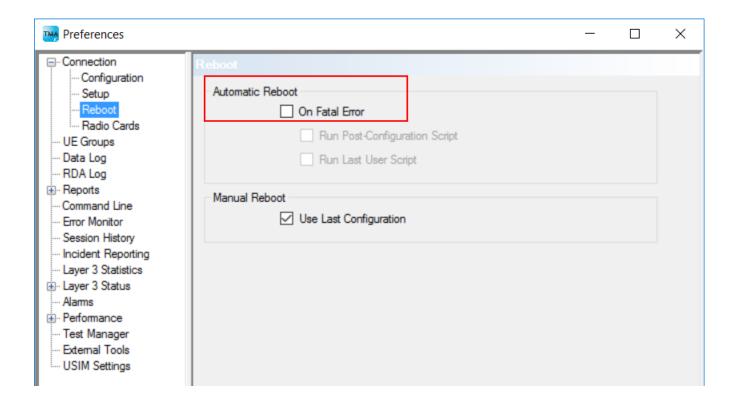
- Test Mobile Trace (DTRC) FTP Settings
 - Host Name: TM500控制电脑IP.
 - Username/Password: TM500(或FileZilla Server)配置的用户 名和密码,默认值*tm500/tm500*。







• 不要勾选Automatic Reboot On Fatal Error.





基本TM500 logs

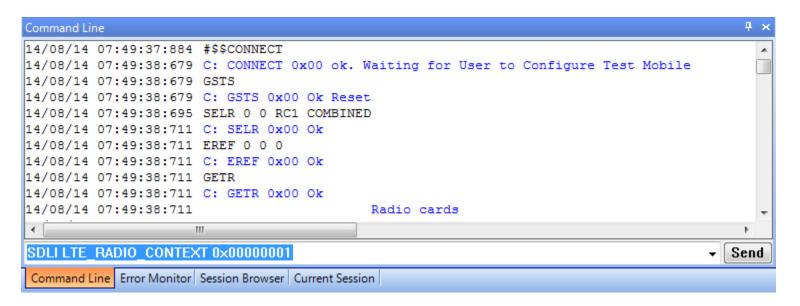
- Command Line log
- Measurement log (GUI log)
- Serial log
- Dump Trace (DTRC log)



Command Line log



- Command Line log是运行脚本时,由TM500 控制电脑发送给TM500的所有命令,以及由TM500返回的响应或指示。
- •测试过程中,可以在Command Line窗口实时看到log。



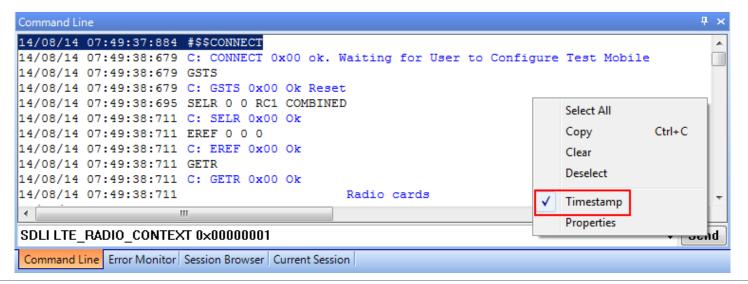
Command Line log



如果Command Line窗口在TMA界面未显示的话,请通过菜单栏或是快捷方式打开。



• 请确保Command Line窗口的时间戳是打开的,点击右键可以确认。



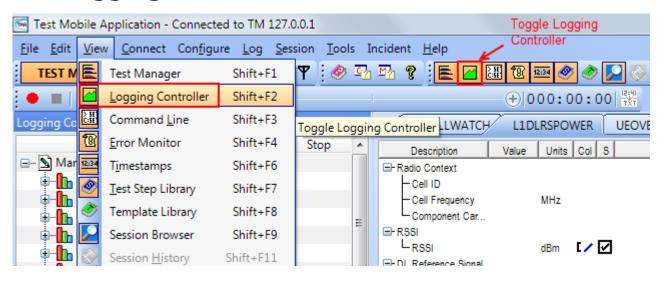
Command Line log



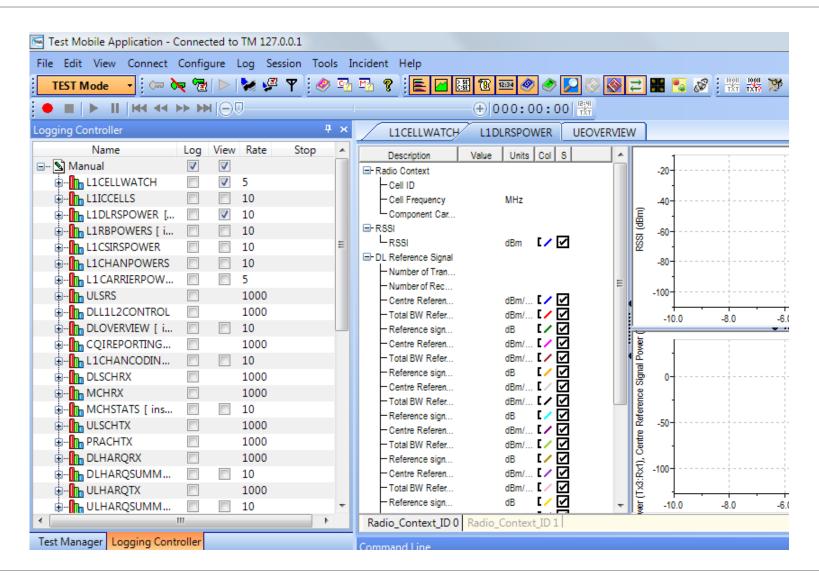
• 关于每个TM500命令对应参数的含义,请参阅TM500 Command Reference Manual。



- Measurement log用于测试过程中实时记录或查看调度和统计信息; log可转换为.log或.csv的格式,用于线下分析。
- 打开Logging Controller。









- 必选SUE/MUE log
 - L1CELLEATCH, L1DLRSPOWER, L1RBPOWERS, PRACHTX,
 CQIREPORTING, DLL1L2CONTROL, DLSCHRX, DLHARQRX,
 ULSCHTX, ULHARQTX, MACTX, MACRX, UEOVERVIEW,
 Protocol log.
- 可选SUE/MUE log
 - MACRXSTATS, MACTXSTATS, RLCRXSTATS, RLCTXSTATS, PDCPRXSTATS, PDCPTXSTATS.
 - -SYSOVERVIEW (MUE only).
- 每个log的含义及其所能抓取的信息,请参考TM500 Measurement Reference Manual。



- 必选CUE log
 - -L1CELLWATCH, SYSOVERVIEW, Protocol log.
- 可选CUE log
 - -L1DLSTATS, L1ULSTATS, MACRXSTATS, MACTXSTATS, RLCRXSTATS, RLCTXSTATS, PDCPRXSTATS, PDCPTXSTATS, L1CELLDLOVERVIEW, L1CELLDLCARRIEROVERVIEW, L1CELLULOVERVIEW, L1CELLULCARRIEROVERVIEW, THROUGHPUT3D, CARRIERTHROUGHPUT3D, RRCSTATS, NASSTATS, RACHSTATS.
 - Functional Testing Logging
 - 最新的CUE新增了类似SUE/MUE的TTI级别的logging,最多支持前32个UE,默认最长抓取10分钟后自动停止,可以通过(*TMA Preferences -> Data Log -> Functional Test Logging*)配置。
 - L1L2FTL
 - L1DLRSPOWER, CQIREPORTING, DLL1L2CONTROL, DLSCHRX, DLHARQRX, ULSCHTX, ULHARQTX, MACTX, MACRX, UEOVERVIEW

Serial log

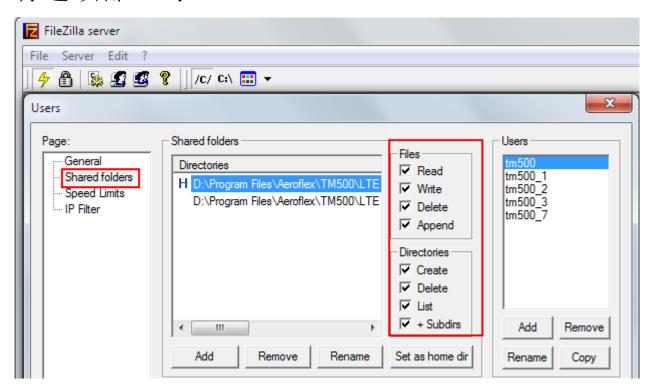


- Serial log记录TM500运行过程中的调试信息。
- 最好从TM500上电开始抓取Serial log。
- 请参阅"CN-005-TM500_Serial_Log_MK3.pptx", 了解串口log的 抓取方法。

Dump Trace



- 当TM500出现ASSERT (crash)时,通过Dump Trace导出内存数据用于后续分析。
- 打开FileZilla Server,确保*ftp_root*对应*Files*和*Directories*的所有选项都已勾上。





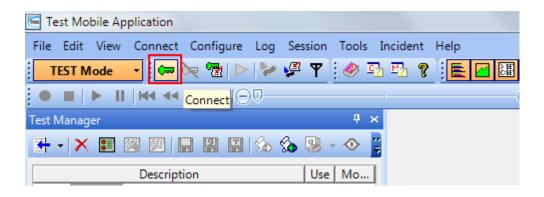




• 1) 连接TM500之前,请先New Session.

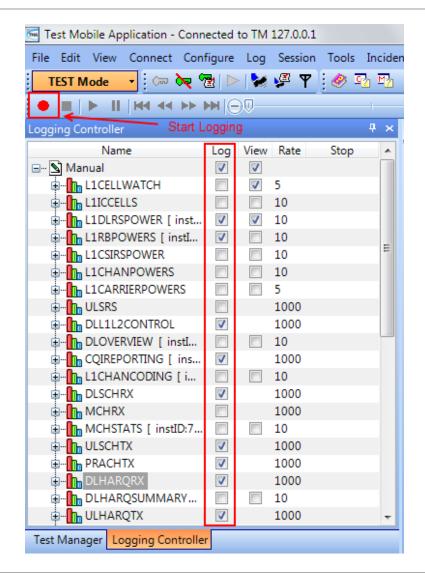


• 2) 点击绿色小钥匙连接TM500.



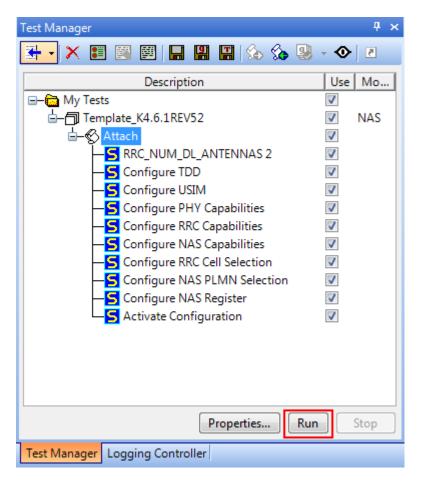


• 3) 选择所需抓取的log选项,然 后点击红色圆形按钮开始抓取 log。



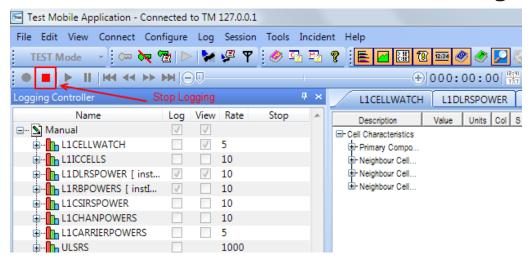


• 4) 运行TM500脚本。





• 5) 测试完成后,点击方形红色按钮停止抓取log。



• 6) 点击 "Convert Current Data"转换log为.csv格式。





• 7) 如果测试过程中,Command Line窗口打印ASSERT,例如:

24/02/14 11:29:28:287 I: ERNO 0x00000002 0x00000000 0x00000000 Assert Fail: " 24/02/14 11:29:28:287 >>>Remote Node Assert:

24/02/14 11:29:28:287 "*** DSP 13.0 ASSERTED:

..|Ite_dsp_app\dl_srp\code\dl_srp_ctrl_scheduler.c, 1416: DL SRP scheduler: Channel estimate queue overflow., Assert param: 0x00000003 ***"

- TM500将自动发送命令抓取DTRC log,并保存在Current Session所对应的文件夹,例如:

Name	Date modified	Туре	Size				
\mu 2015_12_09_16_15_08_777_Incident	12/9/2015 4:21 PM	File folder					
<u>}</u> 151209_161121	12/9/2015 4:22 PM	File folder					
151209_155252_Command_Log000	12/9/2015 4:17 PM	TXT File	109 KB				
Name	Date modified	Type	Size				
□ DTRC	12/9/2015 4:21 PM	File folder					
2015_12_09_16_15_08_777_Incident_Report	12/9/2015 4:15 PM	TXT File	3 KB				
Incident_Profile_Default User	12/9/2015 4:09 PM	XML Document	461 KB				
Incident_ScreenShot	12/9/2015 4:15 PM	JPEG image	217 KB				
Incident_TMA_Layout_Default User.layout	12/8/2015 11:22 PM	XML Docume	Name	^	Date modified	Type	Size
			2015_12_09_16_1	5_04_dump	12/9/2015 4:15 PM	Text Document	20
			2015_12_09_16_1	5_04_dump.mux	12/9/2015 4:15 PM	MUX File	12,777
			2015_12_09_16_1	5_04_dump	12/9/2015 4:15 PM	Wireshark capture	49,470

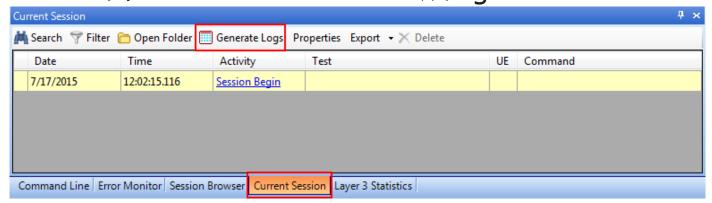


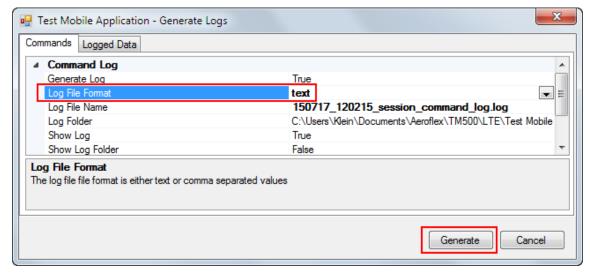
- 如果TM500没有自动抓取DTRC log成功的话,请在Command Line窗口运行"DTRC dumptrace",然后在FileZilla Server配置的ftp_root目录下生成三个文件: dumptrace.log, dumptrace.trc & dumptrace.mux, 这就是Dump Trace log。

备注:如果测试过程中没有出现ASSERT的话,不需要抓取Dump Trace log。



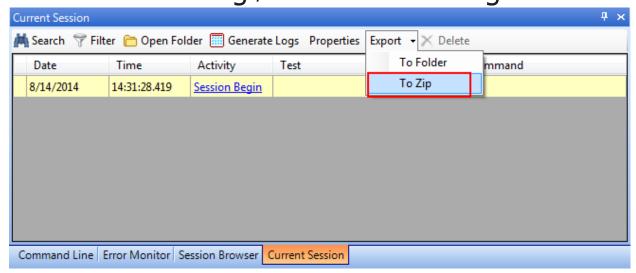
• 8) 选择 Current Session,点击 Generate Logs并配置 Log File Format为 text,"Generate"生成log.

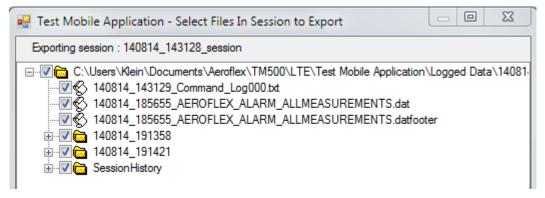






• 9) 点击 Export的"To Zip"导出Session log,文件包含Command Line log和Measurement logs.







- 通过以上9个步骤,所抓取的log包含:
 - Command Line log;
 - Measurement logs;
 - Dump Trace log (如果出现TM500 ASSERT);
 - -Serial log (从TM500上电开始抓取);

以上4个log对于定位TM500相关问题非常重要,请尽可能在第一时间提供完整的log。

备注:如果是硬件问题或者TMA 无法连接TM500的问题,请务必提供Serial log.

如何独立抓取Logical Channel/Radio Bearer/Access Bearer log - SUE

• 以Logical Channel 3和4为例:

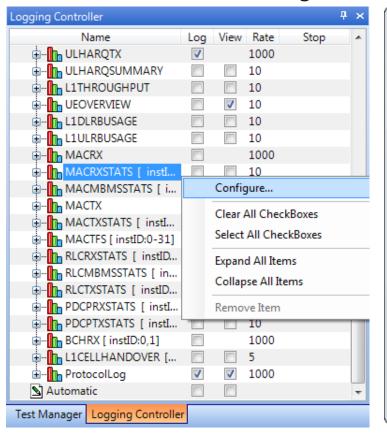
```
drb-ToAddModList {
    eps-BearerIdentity 5,
   drb-Identity 4,
   pdcp-Config {
      discardTimer ms750,
      rlc-AM {
        statusReportRequired TRUE
      headerCompression notUsed : NULL
   rlc-Config am : {
      ul-AM-RLC {
        t-PollRetransmit ms120,
        pollPDU p64,
        pollByte kB750,
        maxRetxThreshold t16
      dl-AM-RLC {
        t-Reordering ms50,
        t-StatusProhibit ms50
   logicalChannelIdentity 3,
   logicalChannelConfig {
      ul-SpecificParameters {
        priority 10,
        prioritisedBitRate kBps8,
        bucketSizeDuration ms100.
        logicalChannelGroup 3
```

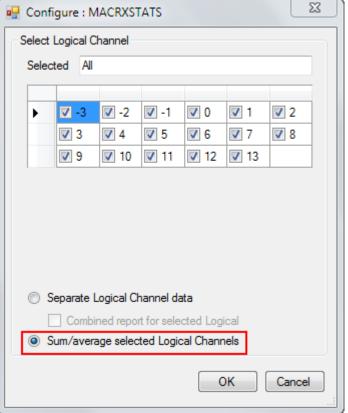
```
drb-ToAddModList {
    eps-BearerIdentity 6,
    drb-Identity 5,
    pdcp-Config {
      discardTimer ms750.
      rlc-AM {
        statusReportRequired TRUE
      headerCompression notUsed : NULL
    rlc-Config am : {
      ul-AM-RLC {
        t-PollRetransmit ms120,
        pollPDU p64.
        pollByte kB750.
        maxRetxThreshold t16
      d1-AM-RLC {
        t-Reordering ms50.
        t-StatusProhibit ms50
   logicalChannelIdentity
   logicalChannelConfig
      ul-SpecificParameters {
        priority 9,
        prioritisedBitRate kBps8.
        bucketSizeDuration ms300,
        logicalChannelGroup 3
```

如何抓取每个Logical Channel的log



- SUE
 - MACRXSTATS/MACTXSTATS
 - 默认设置: 所有Logical Channel合并统计,以MACRXSTATS为例。

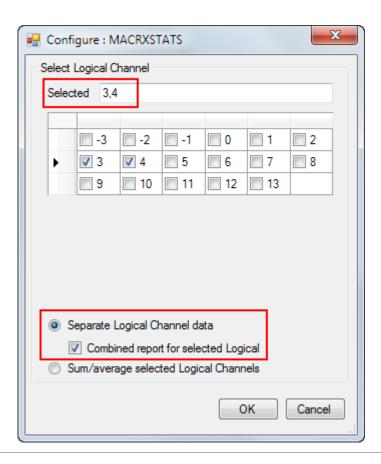




如何抓取每个Logical Channel的log



- 分别抓取每个Logical Channel的log,以MACRXSTATS为例。
 - 根据测试需要,选择所希望抓取的Logical Channel,其中Logical Channel ID对应Protocol log的"logicalChannelIdentity".

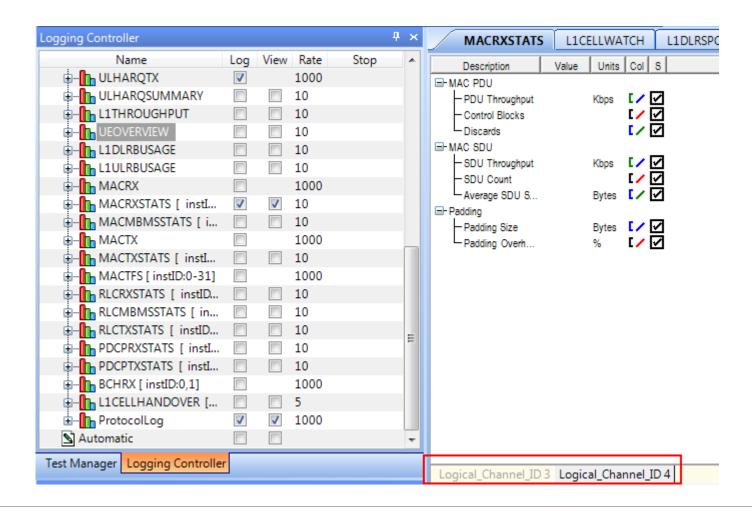


```
logicalChannelIdentity 3,
logicalChannelConfig {
  ul-SpecificParameters {
    priority 10.
    prioritisedBitRate kBps8.
    bucketSizeDuration ms100,
    logicalChannelGroup 3
logicalChannelIdentity 4,
logicalChannelConfig {
  ul-SpecificParameters {
    priority 9,
    prioritisedBitRate kBps8,
    bucketSizeDuration ms300.
    logicalChannelGroup 3
```





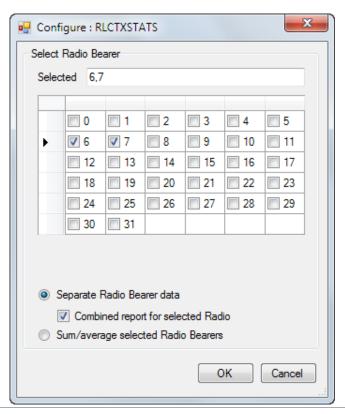
- 配置完成后,实时抓取和查看每个Logical Channel的统计信息。



如何抓取每个Radio Bearer的log



- SUE
 - RLCRXSTATS/RLCTXSTATS
 - 方法和配置MACRXSTATS/MACTXSTATS类似。
 - Radio Bearer ID = "drb-Identity + 2".

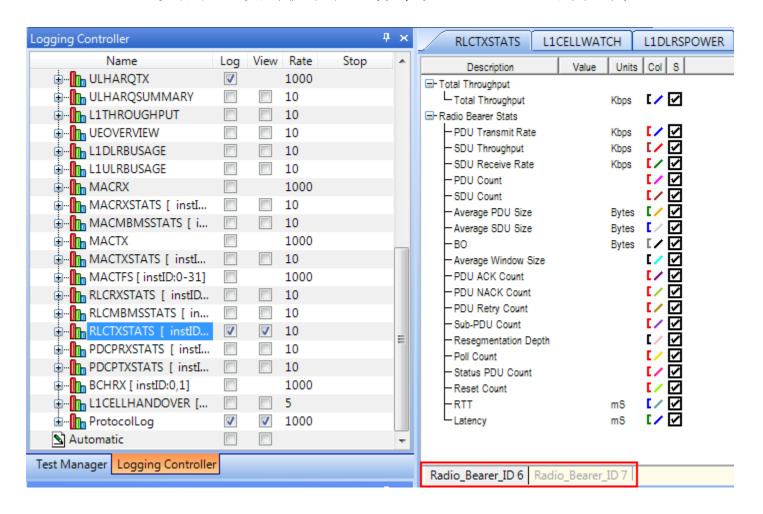


```
drb-ToAddModList {
    eps-BearerIdentity 5,
   drb-Identity 4,
   pdcp-Config {
     discardTimer ms750,
      rlc-AM {
        statusReportRequired TRUE
     headerCompression notUsed : NULL
drb-ToAddModList {
    eps-BearerIdentity 6,
    drb-Identity 5,
    pdcp-Config {
      discardTimer ms750,
      rlc-AM {
        statusReportRequired TRUE
      headerCompression notUsed : NULL
    },
```





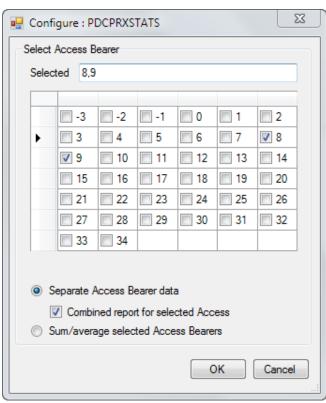
- 配置完成后,实时抓取和查看每个Radio Bearer的统计信息。



如何抓取每个Access Bearer的log



- SUE
 - PDCPRXSTATS/PDCPTXSTATS
 - 方法和配置MACRXSTATS/MACTXSTATS类似。
 - Access Bearer ID = "eps-BearerIdentity + 3".

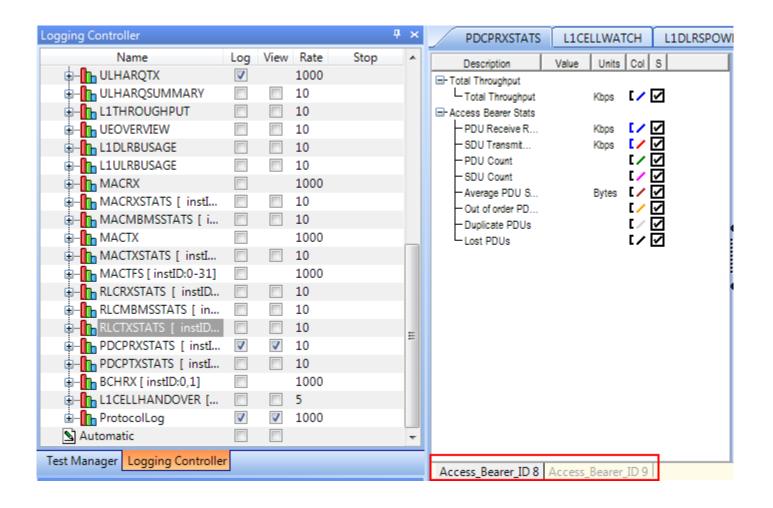


```
eps-BearerIdentity 5,
drb-Identity 4,
pdcp-Config {
  discardTimer ms750,
  rlc-AM {
    statusReportRequired TRUE
  headerCompression notUsed : NULL
},
eps-BearerIdentity 6,
drb-Identity 5,
pdcp-Config {
  discardTimer ms750,
  rlc-AM {
    statusReportRequired TRUE
  },
  headerCompression notUsed : NULL
}.
```



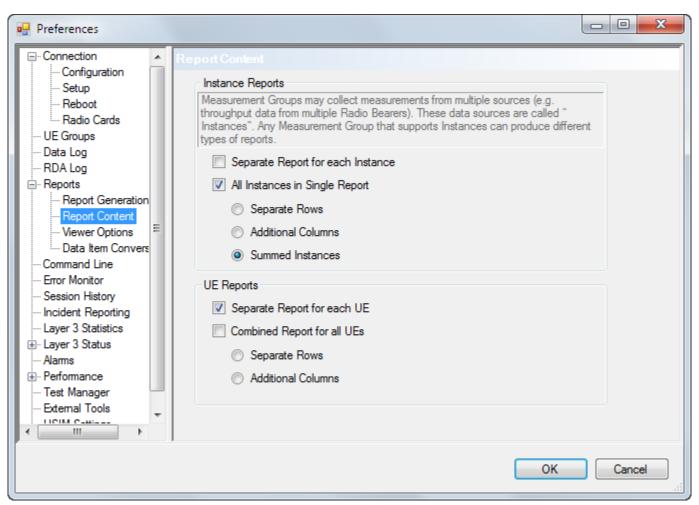


- 配置完成后,实时抓取和查看每个Access Bearer的统计信息。



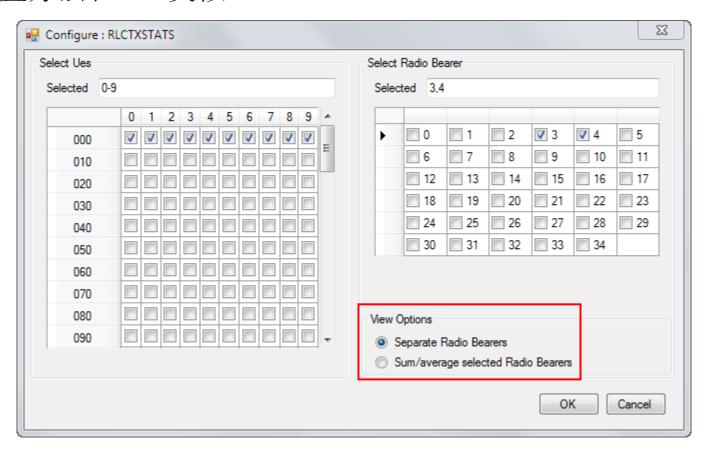
如何独立抓取Logical Channel/Radio Bearer/Access Bearer log - CUE

• 配置 "Report Content".



如何独立抓取Logical Channel/Radio Bearer/Access Bearer log - CUE

• 配置方法和SUE类似。





进阶TM500 logs

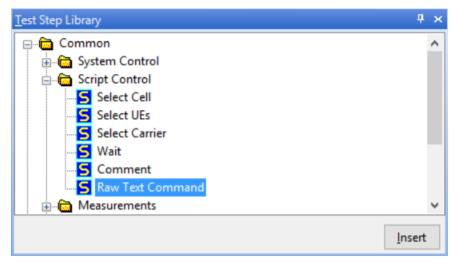
- RSRP/SINR
- BLER/L1 Throughput
- Display UE Status
- Display KPI Statistics
- Display RACH Statistics
- Layer 3 Statistics
- System Summary
- DSP/HLC log



RSRP/SINR



- 功能: 查询每个小区的RSRP/SINR
 - Raw command: forw mte GetStats [6] [-1] [0]
 - Description: RSRP/SINR

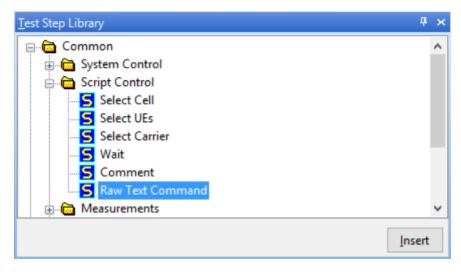


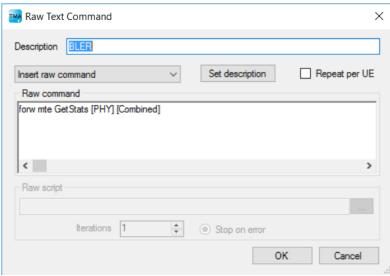


BLER/L1 Throughput



- ·功能:查询每个小区的BLER以及物理层吞吐量。
 - Raw command: forw mte GetStats [PHY] [Combined]
 - Description: BLER

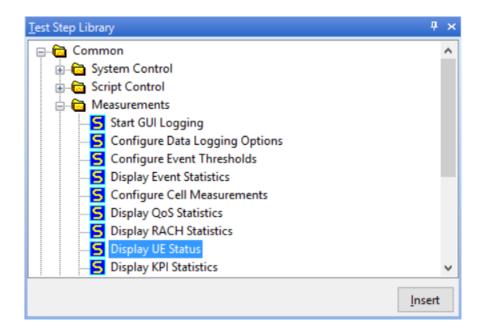




Display UE Status



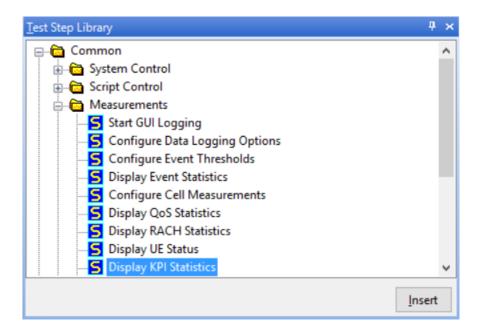
• 功能: 查询UE的RRC/NAS/DTE/MTS Traffic/MTS Mobility状态。



Display KPI Statistics



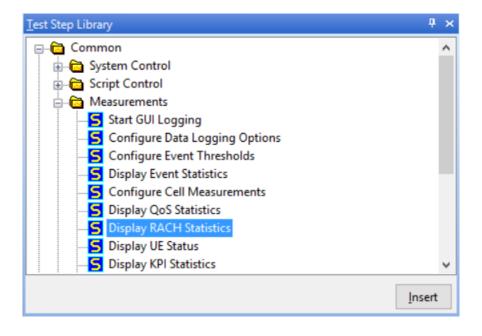
•功能:查询RRC/NAS各项KPI.



Display RACH Statistics

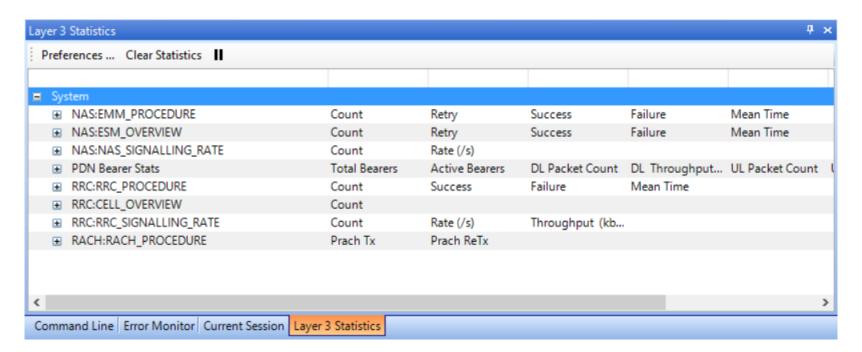


•功能:查询RACH相关的各项KPI.





- 实时查看系统或小区的RRC/NAS KPI.
 - -可以用Display KPI Statistics将结果打印至Command Line log.
 - -GUI log: RRCSTATS/NASSTATS





Preferences Clear Statistics						
System						
■ NAS:EMM_PROCEDURE	Count	Retry	Success	Failure	Mean Time	
ATTACH (Count)	-	-	-	-	-	
ATTACH (Rate/s)	-	-	-	-		
DETACH_UE_INIT		-		-		
DETACH_NW_INIT	-	-	-	-	-	
TAU_NORMAL (Count)		-		-		
TAU_NORMAL (Rate/s)	-	-	-	-		
TAU_PERIODIC (Count)	-	-	-	-	-	
TAU_PERIODIC (Rate/s)	-	-	-	-		
SERVICE_REQUEST_MO (Count)	-	-	-	-	-	
SERVICE_REQUEST_MO (Rate/s)	-	-	-	-		
SERVICE_REQUEST_MT (Count)	-	-	-	-	-	
SERVICE_REQUEST_MT (Rate/s)	-	-	-	-		
SERVICE_REQUEST_IDL (Rate/s)	-	-	-	-		
AUTHENTICATION	-	-	-	-	-	
SECURITY_MODE_CMD	-	-	-	-	-	
						>



Preferences Clear Statistics					
System					
■ NAS:EMM_PROCEDURE	Count	Retry	Success	Failure	Mean Time
■ NAS:ESM_OVERVIEW	Count	Retry	Success	Failure	Mean Time
PDN_CONNECTIVITY	-	-	-	-	-
PDN_DISCONNECT	-	-	-	-	-
BEARER_RESOURCE_ADD (Count)	-	-	-	-	-
BEARER_RESOURCE_ADD (Rate/s)	-	-	-	-	
BEARER_RESOURCE_DELETE	-	-	-	-	-
BEARER_RESOURCE_MODIFY	-	-	-	-	-
NW_ACTIVATE_DEDICATED_BEARER	-	-	-	-	-
NW_MODIFY_BEARER		-	-	-	-
NW_DEACTIVATE_BEARER	-	-	-	-	-
■ NAS:NAS_SIGNALLING_RATE	Count	Rate (/s)			
■ PDN Bearer Stats	Total Bearers	Active Bearers	DL Packet Count	DL Throughput	UL Packet Cour
■ RRC:RRC_PROCEDURE	Count	Success	Failure	Mean Time	
■ RRC:CELL_OVERVIEW	Count				
■ RRC:RRC_SIGNALLING_RATE	Count	Rate (/s)	Throughput (kb		
<					>



Preferences Clear Statistics						
System						
■ NAS:EMM_PROCEDURE	Count	Retry	Success	Failure	Mean Time	
■ NAS:ESM_OVERVIEW	Count	Retry	Success	Failure	Mean Time	
■ NAS:NAS_SIGNALLING_RATE	Count	Rate (/s)				
NAS_DOWNLINK	-	-				
NAS_UPLINK	-	-				
■ PDN Bearer Stats	Total Bearers	Active Bearers	DL Packet Count	DL Throughput	UL Packet Cou	n
0 (DEFAULT)	-	-	-	-	-	
0 (DEDICATED)			-	-	-	
1 (DEFAULT)	-	-	-	-	-	
1 (DEDICATED)					-	
2 (DEFAULT)	-	-	-	-	-	
2 (DEDICATED)					-	
3 (DEFAULT)	-	-	-	-	-	
3 (DEDICATED)					-	
Total	-	-	-	-	-	
■ RRC:RRC_PROCEDURE	Count	Success	Failure	Mean Time		
					7	>

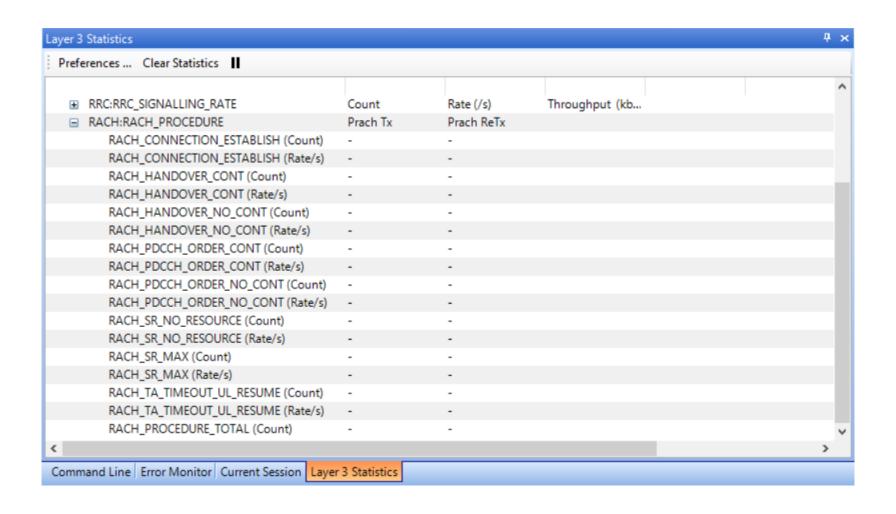


Preferences Clear Statistics					
	Total Bearers	Active Bearers	DL Packet Count	DL Throughput	UL Packet Cou
■ RRC:RRC_PROCEDURE	Count	Success	Failure	Mean Time	
RRC_CONNECTION_REQUEST (Count)	-	-	-	-	
RRC_CONNECTION_REQUEST (Rate/s)	-	-	-		
RRC_CONNECTION_REESTABLISHMENT	-	-	-		
RRC_HANDOVER (Count)	-	-	-	-	
RRC_HANDOVER (Rate/s)	-	-	-		
RRC_CONNECTION_RELEASE	-				
RRC_CONNECTION_REJECT	-				
PAGING_REQUEST_IDLE (Count)	-	-	-		
PAGING_REQUEST_IDLE (Rate/s)	-		-		
PAGING_REQUEST_OVERALL (Count)	-	-	-		
PAGING_REQUEST_OVERALL (Rate/s)	-	-	-		
MEASUREMENT_REPORT	-				
RRC:CELL_OVERVIEW	Count				
■ RRC:RRC_SIGNALLING_RATE	Count	Rate (/s)	Throughput (kb		
■ RACH:RACH_PROCEDURE	Prach Tx	Prach ReTx			



ayer 3 Statistics					-
Preferences Clear Statistics					
∃ System					
■ NAS:EMM_PROCEDURE	Count	Retry	Success	Failure	Mean Time
■ NAS:ESM_OVERVIEW	Count	Retry	Success	Failure	Mean Time
NAS:NAS_SIGNALLING_RATE	Count	Rate (/s)			
	Total Bearers	Active Bearers	DL Packet Count	DL Throughput	UL Packet Count
■ RRC:RRC_PROCEDURE	Count	Success	Failure	Mean Time	
RRC:CELL_OVERVIEW	Count				
ATTACHED_UES	-				
CONNECTED_UES					
INACTIVE_UES	-				
IDLE_UES					
■ RRC:RRC_SIGNALLING_RATE	Count	Rate (/s)	Throughput (kb		
RRC_DOWNLINK	-				
RRC_UPLINK	-	-	-		
■ RACH:RACH_PROCEDURE	Prach Tx	Prach ReTx			
C					
Command Line Error Monitor Current Session	Lavor 2 Statistics				

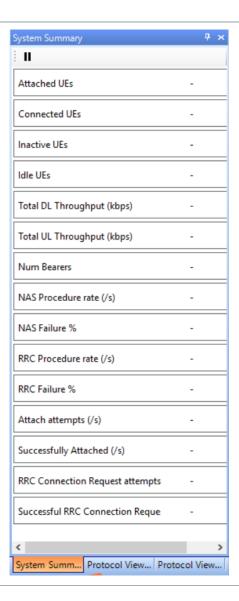




System Summary



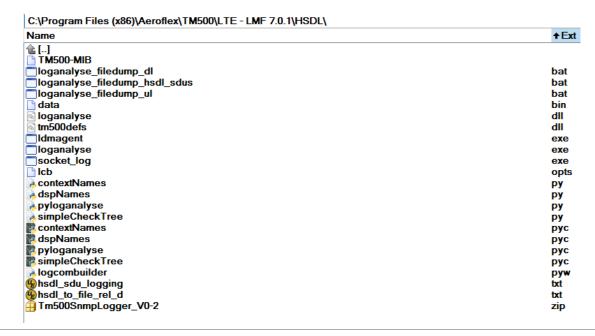
• 实时查看系统级统计。



DSP/HLC log



- 除了GUI log, TM500还支持调试级别的DSP/HLC log, 非常详细打印出 L1/MAC/RLC/PDCP/RRC相关信息,最小时间粒度是TTI.
 - DSP log: L1相关相关。
 - HLC log: MAC/RLC/PDCP/RRC相关信息。
- 每个T500软件安装目录下自带HSDL文件夹,DSP/HLC log抓取相关的文件包括
 - socket_log.exe
 - loganalyse.exe/loganalyse.dll/tm500defs.dll



DSP/HLC log



- DSP/HCL log抓取之前需要运行DSP logging mask,以打开不同的log开关。针对不同问题的定位,请咨询TM500 FAE获取对应的logging mask。
- 抓取DSP/HLC log时,请严格按照TM500 FAE建议的步骤抓取。
- **socket_log**和**loganalyse**都可以用于抓取DSP/HLC log,但为避免流控,先用socket_log抓取二进制码流,然后再离线用loganalyse解析二进制码流为文本格式。
- 不同TM500软件之间的*socket_log*基本是通用的,但为保险起见,建议还是采用当前使用的TM500软件HSDL文件夹下的 *socket_log*.
- 不同TM500软件之间的*loganalyse/tm500defs*有区别,所以请 务必采用当前使用的TM500软件HSDL文件夹下的 *loganalyse/tm500defs*,否则将导致DSP/HLC log解析异常。

DSP/HLC log



• DSP/HLC log都通过统一的端口 25700 输出,命令格式例如:

socket_log.exe 192.168.10.70 25700 -f MUX.dat -s 200 -l 20

-f: 保存的文件名

-s: 指定文件大小进行分段,建议以200MB分段。

-I: log抓取的时间

loganalyse



- loganalyse解析
 - -请在loganalyse所在文件夹下打开DOS窗口,然后运行解析命令。
 - -请参阅后续*loganalyse Options*更多解析选项。

loganalyse Options



```
C:\Windows\system32\cmd.exe
                                                                                                   П
                                                                                                         X
Microsoft Windows [Version 10.0.10586]
(c) 2015 Microsoft Corporation. All rights reserved.
c:\Aeroflex\TM500\LTE - LMF 7.0.1\HSDL>loganalyse -h
Jsage: loganalyse [options] [-] [filename]
 Options:
   -h [<option>]
          Prints detailed help for <option>. If <option> not specified, prints
          available options.
          This is used to report version information for loganalyse and each
          successfully loaded logging definition DLL.
   -i {<IP address>:<port> | <IP address>: |:<port>}
          Indicates that a TCP/IP socket should be used for input rather than
          a file.
   -D {\rat>| [\rat>-] \rangle domain \rangle [-\langle instance \rangle \rangle core \rangle ] \rangle [; . . . ]
          Filters specified RAT and/or domain and/or node from the output,
          supplied as a semicolon delimited list.
          where:
                        - SA LTE UMTS GERAN (case insensitive)
            <rat>
            <domain> - HLC DSP UMBRA (case insensitive)
            <instance> - 0..255
            ⟨core⟩ - 0..7
            Default: All RATs, domains & nodes are output when option not
          supplied
          NOTE1: See also -d which performs the inverse of this function.
          NOTE2: This option cannot be used at the same time as -d.
   -d {\rat\| [\rat\-] \rangle domain \rangle [-\langle instance \rangle \rangle core \rangle] \rangle [; ...]
          Selects the RATs and/or domains and/or nodes for which data is to be
```

loganalyse Options



```
X
C:\Windows\system32\cmd.exe
                                                                                         П
        NOTE2: This option cannot be used at the same time as -d.
  -d {\rat> | [\rat>-] \langle domain \rangle [-\langle instance \rangle \langle core \rangle] \rangle [:...]
        Selects the RATs and/or domains and/or nodes for which data is to be
        reported, supplied as a semicolon delimited list.
        where:
          <rat> - SA LTE UMTS GERAN (case insensitive)
          <domain> - HLC DSP UMBRA (case insensitive)
          <instance> - 0..255
          <core> - 0..7
          Default: All RATs, domains & nodes when option not supplied
        NOTE1: See also -D which performs the inverse of this function.
        NOTE2: This option cannot be used at the same time as -D.
  -F [{\rat>|[\rat>-]\domain>}:]{\message>|\domain>}[;...]
        Filters one message or all messages in a base from the textual
        output, for a specified RAT and/or domain or all nodes, supplied as
        a semicolon delimited list.
        where:
                    - SA LTE UMTS GERAN (case insensitive)
          (rat)
          <domain> - HLC | DSP | UMBRA (case insensitive)
          <message> - Message name (case sensitive)
          NOTE1: See also -f which performs the inverse of this function.
        NOTE2: This option cannot be used at the same time as -f.
  -f [{\rat>|[\rat>-]\domain>}:]{\message>|\domain>}[;...]
        Includes one message or all messages in a base in the textual
        output, for a specified RAT and/or domain or all nodes, at the
        exclusion of all others, supplied as a semicolon delimited list.
        where:
                    - SA LTE UMTS GERAN (case insensitive)
          (rat)
```

loganalyse Options



```
C:\Windows\system32\cmd.exe
                                                                                          \Box
                    - SA|LTE|UMTS|GERAN (case insensitive)
           (rat)
           <domain> - HLC DSP UMBRA (case insensitive)
          <message > - Message name (case sensitive)
                    - Message base name (case sensitive)
           <base>
        NOTE1: See also -F which performs the inverse of this function.
        NOTE2: This option cannot be used at the same time as -F.
        Indicates that loganalyse should wait for a key press before
        exiting.
  -N {on off}
        Indicates whether loganalyse should prefix log text with a node
        identifier string (e.g. 'UMTS HLC 8.0').
  -a [{on|off}]
        Indicates whether loganalyse should be operating in non-interactive
         (a.k.a. automation) mode
  -r <logging definitions root directory>
        This is used to force a specific root directory to be searched for
        logging definition DLLs.
  -o {<options file> none}
        Override the default options file.
  -g <graph type>[:...]
        This is used to generate a graphical view on the specified logging
         data.
  -G <graph type>[:...]
        This shows the same graphical view as the -g option but filters the
        graphed messages from the textual output.
  -t [<format>]
        This option is used to change the format of the time field in the
        textual output
  '-' can be used after an option with an optional parameter to prevent the
  filename from being interpreted as the parameter.
```

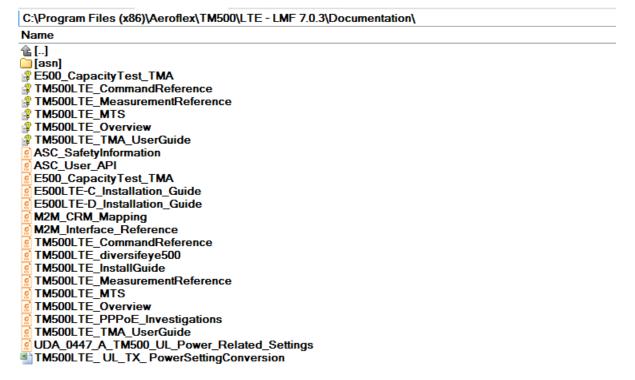




TM500帮助文档



• 每个TM500软件的安装目录下都有 *Documentation*的文件夹,例如:



TM500帮助文档



- Command Reference Manual
 - -TM500所有命令及参数的描述。
- MTS Reference Manual (CUE)
 - Mobility and Traffic Mode (MTS)相关命令及参数描述。
- Measurement Reference Manual
 - -TM500所有log的描述。
- TM500/E500 Install Guide
 - -TM500/E500环境搭建及配置,包括如何配置Hyper Terminal抓取Serial log。
- TMA User Guide
 - Test Mobile Application (TMA)用户界面的介绍和使用。

References



- TM500LTE_TMA_UserGuide.pdf
- TM500LTE_MeasurementReference.pdf

Change History



Version	Date	Author	Reviewed by	Approved by	Change history
0.1	13/05/2016	Klein Jiang	NA	NA	Initial draft
0.2	29/05/2016	Klein Jiang	NA	NA	Reviewed by Corey/Sining
0.3	21/06/2016	Klein Jiang	NA	NA	Reviewed by Klein

