



## **Tavor L**

CATStudio for TTC/TD

**GraphViewer quick start**

v1.1

## 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: PhsCthallReleaseNotes

Technical Publication: v1.1

For more information, visit our website at: [www.asrmicro.com](http://www.asrmicro.com)

### Disclaimer

No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, for any purpose, without the express written permission of Asrmicro. ASR retains the right to make changes to this document at any time, without notice. ASR makes no warranty of any kind, expressed or implied, with regard to any information contained in this document, including, but not limited to, the implied warranties of merchantability or fitness for any particular purpose. Further, ASR does not warrant the accuracy or completeness of the information, text, graphics, or other items contained within this document. ASR products are not designed for use in life-support equipment or applications that would cause a life-threatening situation if any such products failed. Do not use ASR products in these types of equipment or applications.

Copyright © 2020. ASR International Ltd. All rights reserved..

## Table of Contents

|          |                                    |           |
|----------|------------------------------------|-----------|
| <b>1</b> | <b>Features.....</b>               | <b>4</b>  |
| 1.1      | Series.....                        | 4         |
| 1.1.1    | GSM+WCDMA.....                     | 4         |
| 1.1.2    | GSM+TD-SCDMA.....                  | 4         |
| 1.1.3    | GSM+TDD-LTE.....                   | 4         |
| 1.2      | Balloon label and tips window..... | 5         |
| 1.3      | Mutiple charts.....                | 5         |
| <b>2</b> | <b>Usage.....</b>                  | <b>7</b>  |
| 2.1      | Add Series.....                    | 7         |
| 2.2      | Remove Series.....                 | 7         |
| 2.3      | Show/Hide balloon labels.....      | 7         |
| 2.4      | Show point information.....        | 8         |
| 2.5      | Axes Rescaling.....                | 9         |
| 2.6      | Set Legend position.....           | 9         |
| 2.7      | GraphViewer windows Spliting.....  | 10        |
| 2.8      | Remove Chart.....                  | 10        |
| 2.9      | Device selection.....              | 10        |
| <b>3</b> | <b>Revision History.....</b>       | <b>10</b> |

# 1 Features

## 1.1 Series

GraphViewer use plugins to decode log file and generate graphic data. Currently there are three plugins.

[See Usage](#)

### 1.1.1 GSM+WCDMA

- CIR
- SNR
- RSSI\_SCell
- RSSI\_NCell
- RSCP\_SCell
- RSCP\_NCell
- TX\_Throughput
- RX\_Throughput
- EcN0
- HsBLER
- HsCQI
- HsDlThroughput
- HsScchAttempt
- HsScchSuccess
- HsDschReTrans
- HsTBSIZE
- HsModulation

### 1.1.2 GSM+TD-SCDMA

- CIR
- SNR
- RSSI\_SCell
- RSSI\_NCell
- RSCP\_SCell
- RSCP\_NCell
- HSDPA\_DlThroughput
- HSDPA\_DlBler
- TX\_Throughput
- RX\_Throughput
- ECIO

### 1.1.3 GSM+TDD-LTE

- CIR
- SNR
- RSSI\_SCell
- RSSI\_NCell
- RSCP\_SCell
- RSCP\_NCell
- HSDPA\_DlThroughput
- HSDPA\_DlBler
- TX\_Throughput
- RX\_Throughput
- ECIO
- LTE-CQI-TB0
- LTE-CQI-TB1
- LTE-DlBler
- LTE-UIBler
- LTE-DlThroughput

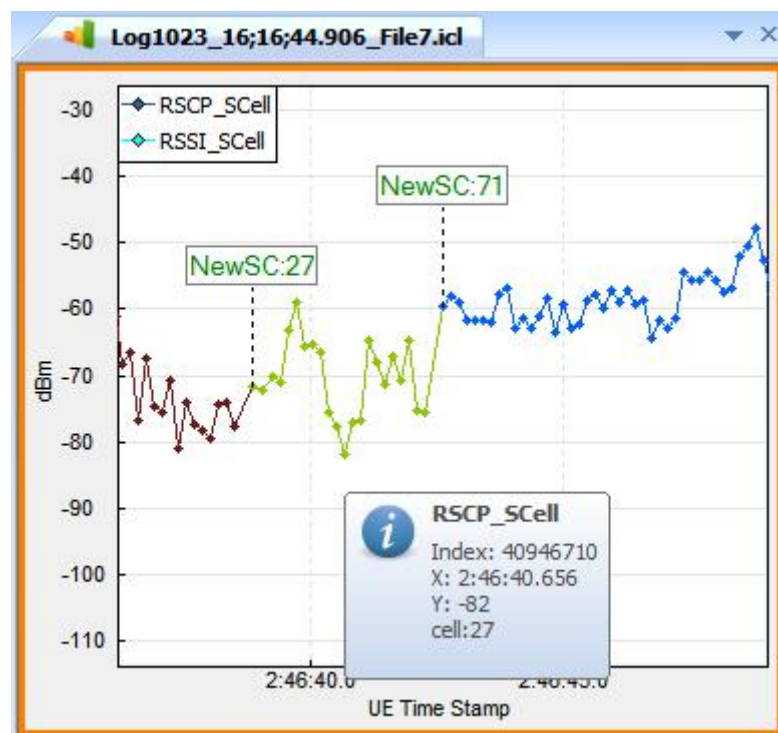
- LTE-SNR
- LTE-TB0-GrantNum
- LTE-TB1-GrantNum
- LTE-TransMode
- LTE-TB0-ErrorNum
- LTE-TB1-ErrorNum
- LTE-TB0-AverDIMcs
- LTE-TB1-AverDIMcs
- LTE-AverDIPRB
- LTE-UIGrantCount
- LTE-UIDatalenTotal
- LTE-DITotalLen
- LTE-AverUIMcs
- LTE-AverUIPRB
- LTE-SC-RSRP
- LTE-SC-RSRQ
- LTE-NC-RSRP
- LTE-NC-RSRQ

## 1.2 Balloon label and tips window

Balloon label is usually used to show some event such as serving cell change.

Tips window is used to show information of point or line.

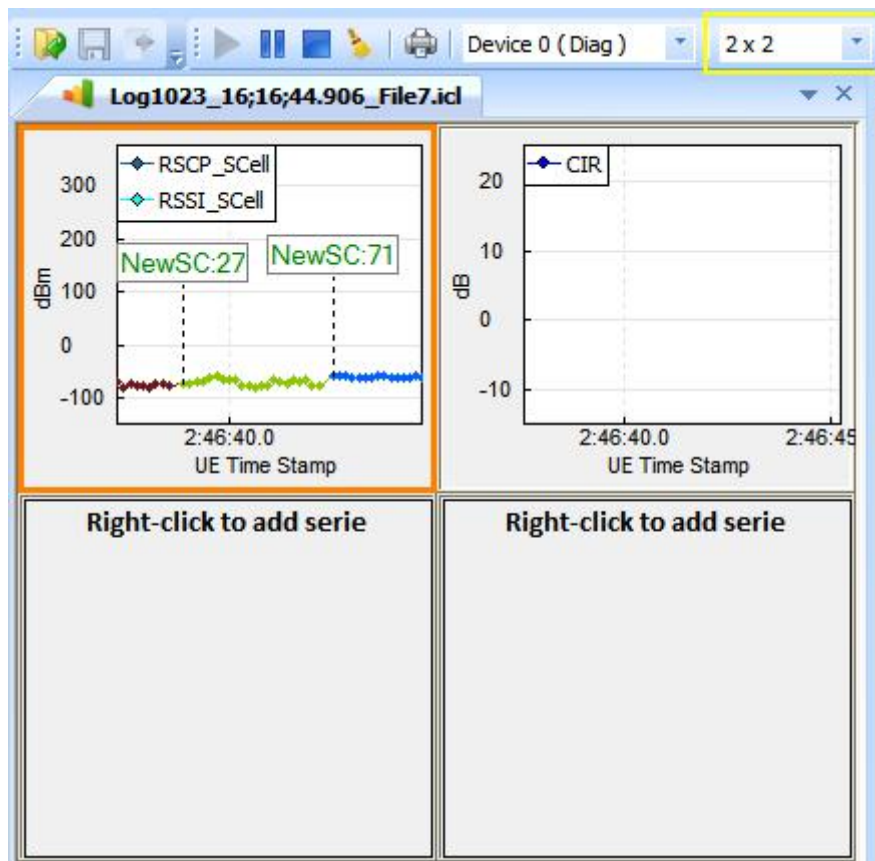
[See Usage](#)



## 1.3 Mutiple charts

A Graph view can be splitted into multiple charts window by selecting dimension from combobox.

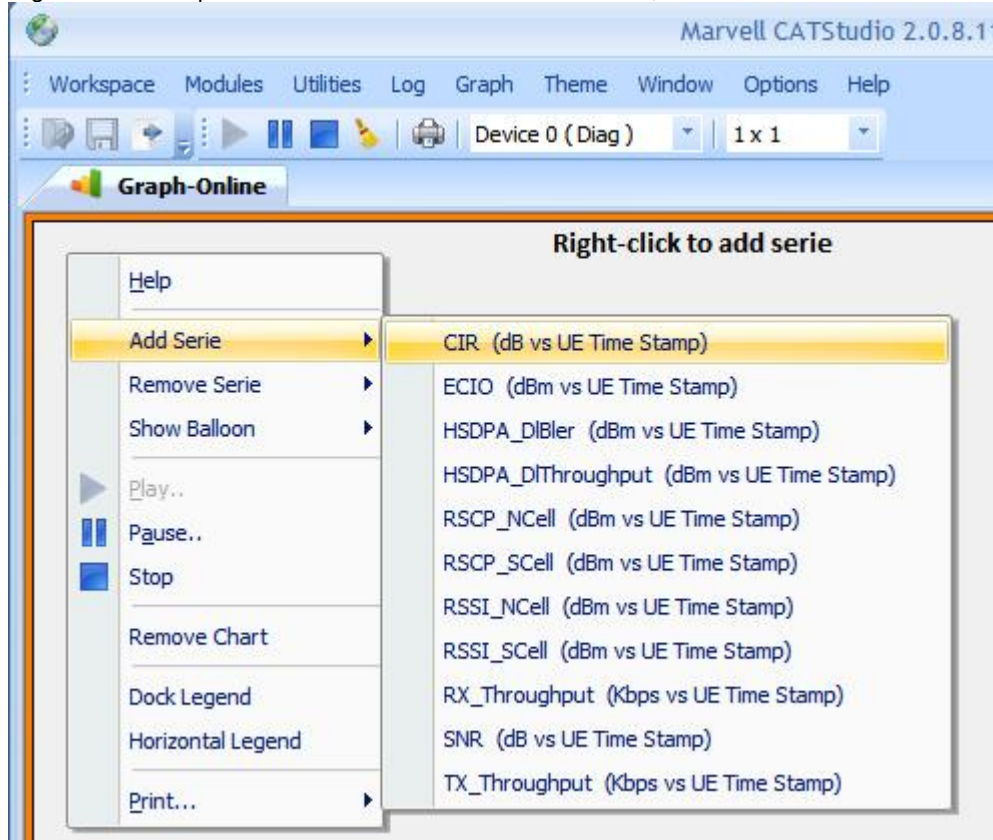
[See usage](#)



## 2 Usage

### 2.1 Add Series

Right click on GraphViewer window to activate context menu, select series from sub menu 'Add Serie'.

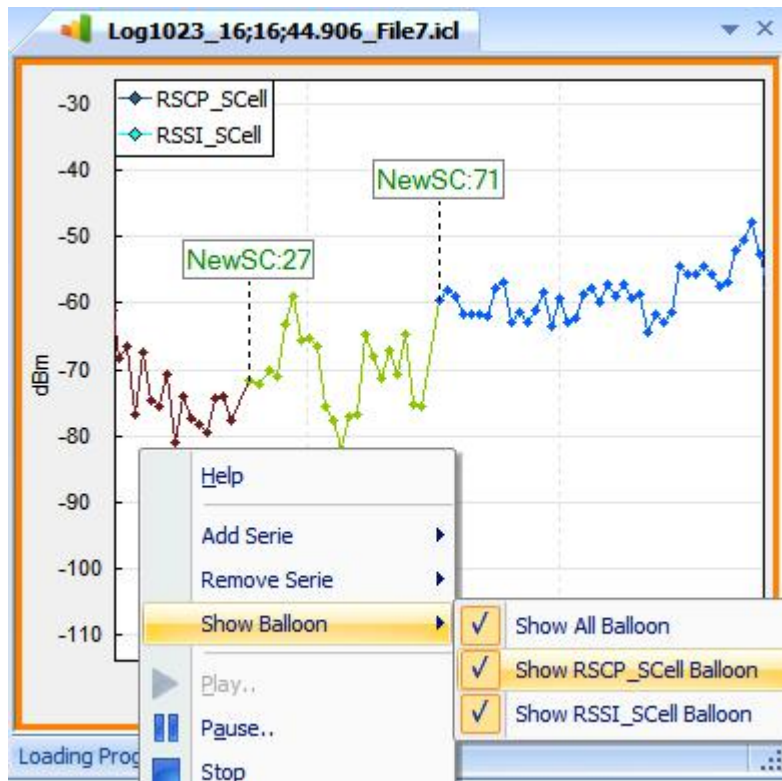


### 2.2 Remove Series

Right click on GraphViewer window to activate context menu and click on 'Remove Serie' menu item.

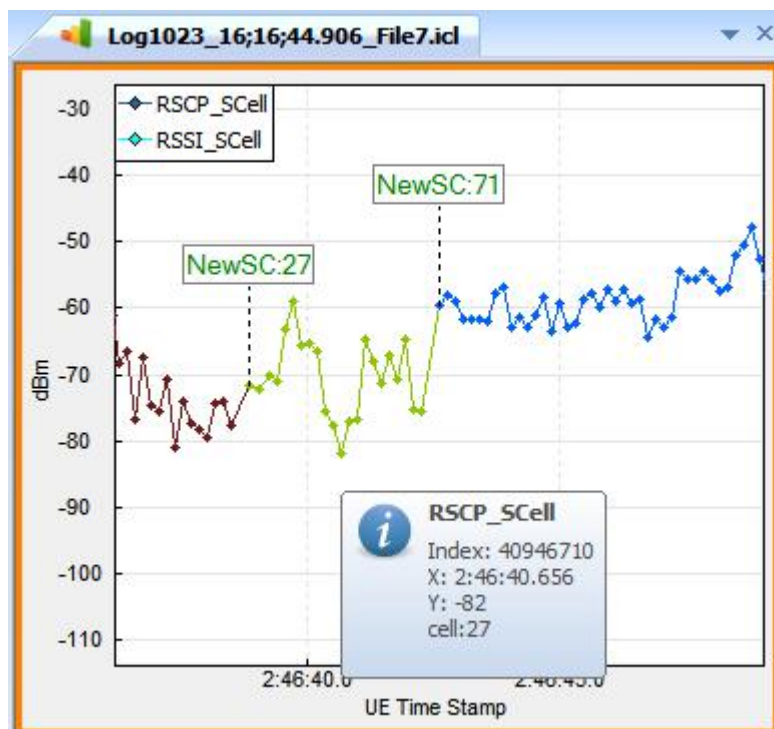
### 2.3 Show/Hide balloon labels

Right click on GraphViewer's plotting area to activate context menu and choose which series' balloon to be show or hide.



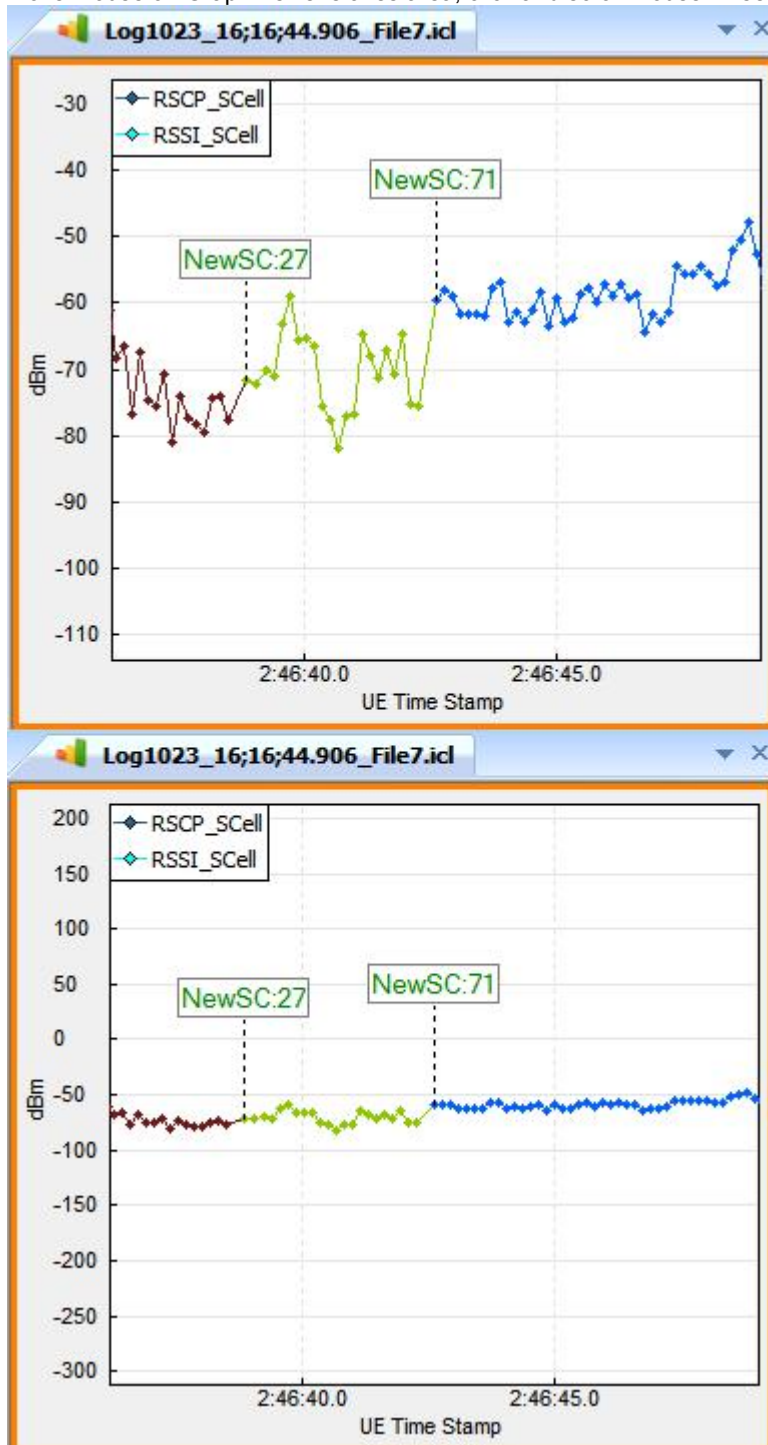
## 2.4 Show point information

Move mouse cursor to point, point information tips window will be displayed after 0.5 second. Tips window containing message index, X value, Y value and cell id.



## 2.5 Axes Rescaling

Move mouse on GraphViewer's axes area, click and scroll mouse wheel to zoom in or zoom out axes.



## 2.6 Set Legend position

Right click on GraphViewer's plotting area to activate context menu, the menu item 'Dock Legend' and 'Horizontal Legend' control the position of Legend.

## 2.7 GraphViewer windows Splitting

Click on Dimension combo box to select desired dimension. After selecting, the GraphViewer windows will be splitted into several sub window called **charts**.

Since all charts' X-axis response to mouse wheel scrolling on any axis, when user rescaling a X-axis other X-axis will also be rescaled. This feature is very helpful for comparing, for all axis have the same range after mouse wheel scrolling.

## 2.8 Remove Chart

Right click on GraphViewer's plotting area to activate context menu and click on menu item 'Remove chart' to remove splitted chart.

## 2.9 Device selection

By default, user could ignore device selection. But in some case, for example, multiple devices were connected, user disconnected one device and connected another, user need to re-select device from Toolbar device selection combo box.



## 3 Revision History

| Revision | Author        |
|----------|---------------|
| 1.0      | Hongliang Zhu |
| 1.1      | Hongliang Zhu |
|          |               |
|          |               |