



viSer Neo+ Data Sheet

Getting information from the low level of the modem

viSer Neo+ is an application that allows to access information from the low level of the modem. Its functionalities are activated only with a specific license linked to the IMEI of the device under test. It supports the following radio technologies:

- GSM
- WCDMA
- LTE
- 5G NSA/SA

Our application gathers information in real time on the primary and secondary cells, on the carrier aggregation in uplink and downlink, on the audio call codec and many more. It supports many recent Android devices and chipsets. viSer Neo+ gathers all the functionalities of viSer Neo while also collecting modem logs.

Locking features

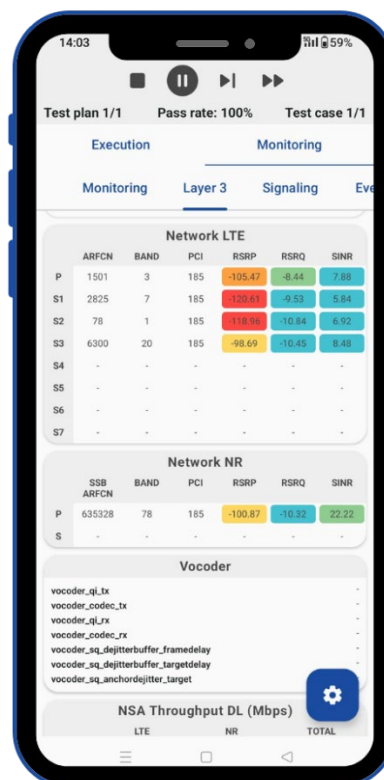
viSer Neo+ can force the network to lock on a cell and a band, here are the different features available:

- Preferred network type
- NR Mode
- Preferred LTE Band
- Preferred NR Band
- Preferred WCDMA Band
- Preferred GSM Band
- EARFCN Lock
- LTE Cell Lock
- UARFCN Lock

Signaling decoding

There are two ways to access the signaling decoding:

- Directly in viSer Neo+, tap on a signal message
- Log in on VWS and use Analytics Studio to build your own board.





Assessing the data in VWS Analytics Studio

Assess viSer Neo+ data in VWS Analytics Studio with the **L3 Signaling** and **L3 Event** widgets. These synchronised widgets allow to assess signals and events one by one and to check a signal message decoding easily.

L3 Signaling

Search title

Time from 0	Dir.	Title	Category
00:00:36:198	↓	Paging	LTE
00:00:36:438	↓	Paging	LTE
00:00:37:079	↑	IMS_SIP_INVITE	IMS
00:00:37:472	↓	IMS_SIP_INVITE : 100 Trying	IMS
00:00:38:154	↓	RRC Connection Reconfiguration/Protected NAS msg	LTE
00:00:38:154	↓	IMS_SIP_INVITE : 183 Session Progress	IMS
00:00:38:154	↑	RRC Connection Reconfiguration Complete	LTE
00:00:38:154	↓	Activate Dedicated EPS Bearer Context Request	ESM
00:00:38:155	↑	Activate Dedicated EPS Bearer Context Accept	ESM

IMS Message

Version : 1
Direction : UE To Network
SDP Presence : true
SIP Call ID Length : 62
SIP Message Length : 2344
SIP Message Logged Bytes : 2345
Message ID : IMS_SIP_INVITE
Response Status Code : 0
CM Call ID : 258
SIP Call ID :
3714216852_4239430408@2a02:8468:1073:2017:744f:b9ff
SIP Message : {INVITE sip:0970730914;phone-context=ims.mnc010.mcc208.3gppnetwork.org@ims.mnc01 SIP/2.0
From:
<sip:+33755615652@ims.mnc010.mcc208.3gppnetwork.org
To: <sip:0970730914;phone-

L3 Event

Search title

Time from 0	Title	Description
00:00:35:752	LTE_MeasGap_Release	
00:00:36:438	LTE_MeasGap_Release	
00:00:37:079	Outgoing_Call_Attempt	VoLTE
00:00:37:472	Outgoing_Call_Attempt	VoLTE
00:00:38:154	Outgoing_Call_Setup	
00:00:38:154	Dedicated EPS Bearer Activation Attempt	

