SaskTel 5G Innovation Lab

NEMO Outdoor User Guide



ADDING A NEW PHONE/DEVICE INTO NEMO OUTDOOR

NOTE: Before setting up a device in NEMO, you must be sure that it is first setup properly in Windows.

This may involve:

- loading device specific drivers
- configuring devices such as phones to enable certain hidden or locked features
- loading special software on the device

Install the Windows driver for the device before plugging it into the laptop.

Once the drivers have been installed, plug the device into a USB port and make sure its sets up properly in the Windows Device Manager.



On a Samsung device, enable developer options by going into "settings", selecting "More", scroll down to "About device" then scroll down and tap on "Build number" 6 times to enable the Developer Mode.

Samsung devices also need special USB Settings configured to allow NEMO to communicate properly with the device. This menu is accessed by pressing *#0808# in the dialer of the Samsung phone. Once this USB Settings menu comes up, select the following setting - RMNET + DM + MODEM + ADPL + ADB.

USBSettings

USB Settings		
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Once the device has successfully been added to Windows, open NEMO Outdoor. Go to the Home Screen of NEMO and select "Autodetect".

You should see the following screen appear.

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Select the new phone device, in this case "Qualcomm [COM42/<Automatic>/Automa..", and check the box beside it.

Now select "Online"

If everything was setup properly, you should automatically return to the NEMO home screen.

Select the Device tab and you should now have the "Qualcomm" device added.

Now click once on "2. Qualcomm" to highlight it and then click on the connections icon as seen below and a screen should open as shown.

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Make sure that all boxes (other than Com ports) match as per above.

Name your device and click "OK"

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Now go under the "Devices" tab and double click on the newly added device.

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Open the "Measurement" tab.

Set all "Measurement Options" to "Yes" and select "OK".

Your device should now be successfully added to NEMO.

When you add new devices into NEMO Outdoor they should automatically start displaying data in the following work place tabs.

Workspaces:

LTE Phone Parameters/Measurements



RSRP (Reference Signal Received Power) Line Graph



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LTE Throughput Line Graph (Mbps)



NR Throughput Line Graph (Mbps)



Layer 3/RRC Messages

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Layer 3 Messages



SIP Messages

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LTE/5G Parameters

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1.5521		Polici Itorinogy BHU BRC state (M) n.0	Packet session activated	
		in the water of the second sec	MS SIP server registered	
		MAC downlink scheduled throughout (HA) 0.0 Mbps		
		Mic downink throughout (M) 0.0 Mbps		
		Ner Hau, downwra trifolginou riessuerier ares age 0, 37405 Nac downied R.F. (NB)		
		McCulink troughout (MR) 0.0 Miss		
		NR. MAC uplink throughput measurement average 0.3 Mbps		
		MAC uplink retransmission rate (VR) 0.00 %		
		PTSCH work letters (MIL RE) 0.0		
		PSSH KGS (WILDR) na		
		PDSCH rank (VR) n,9	2	
		POSCH BWP ID (MR) n/A		
		PUSCH H985 (HK) () ()3 BID/D used bib/D (H)8 BD () ()3		
		PISCH # MODE AND PRO 0 00		
		PUSCH BWP ID (WR) n/a		
		PUSCH Rese (MR) n,0		
		It Serving Cell Information - 1, S21	ĸ	
Services Options Paramete	n Lu · ·	Band (JTE poel) Oh (JTE poel) PCI (JTE poel) BTS cell name (perving) RSRP (JTE poel) RSRQ (JTE poel) RSSI (JT	-	
4 Services	^	175 700 700 bend 13 5230 82 n/w -73.6 -14.6 -42.0		
# Calls			-	
Voice Call		LE Cell Information		
Locamina Call		Parater 1.5521		
Mittimedia Mercanico		Bend LTE-FID 700 Dend 13 Cell Identification 1000E004		
Darket Services		Canada unite 520		
A Supported Data Protoc		Physical cellidentity 82		
Browsing		WE code 128		
Drochov		We group ID 6800		
FTD / SETD	- 11	Public benowers UP Program State Control of		
HTTP / HTTPS		DMI state Begisterd		
ICMP Ping		EMM substate Registered, nomal service		
IMAP		Mobile country code 302		
	- 1	Mobile retwork code 780		
Instagram		In Bonny of the subset of the		
initiagram		The second s		
iPert POP3		RRC state Convected		
Port POP3 SMTP	- 11	14KC state Connector Transmission mode THM closed SH		
Instagram iPof POP3 SMTP Trace Route		HNL State Universe Universe Transmission node TMH Ossed SMI Transmission node TMH Ossed SMI Timing Johance n/b		