Tools-List

Pankaj Dhakate :+91 9372860072 / +91 7758916600
(pankajdhakate@gmail.com)

Tool Index :

1) ENodeB_TAL_TAC_LAC_VLR_Tool

Usage of Tool :

1. This can be used to prepare the ENodeB_TAC_LAC_VLR mapping data in seconds.
2. Nearly 20-30 min required to prepare the this data for 1 Huawei USN9810. If any circle has 3 USNs, it will take nearly an hour to prepare it manually. Using this tool **valuable man hours can be saved.**
3. Manual errors can be avoided with this tool.
4. Frequent audit of ENodeB-TAC-LAC-VLR mapping can be done.
5. ENodeB Pooling in different MMEs in a circle can be checked frequently. MME IP Corrections in ENB can be checked and corrected with this.
6. Useful in analysis for TAC-LAC-VLR mapping to improve CSFB SR.
7. Useful for RAN team to check ENB-TAC mapping at MME.

How it Works : ENodeB_TAL_TAC_LAC_VLR_Tool

1. Tool is in executable form (not required to install)
2. **Download the tool from my Google Drive :**

   For 64bit PC - a) Click Here : ENB_TAL_TAC_LAC_VLR_x64.3 to download

3. Input file – 'EXP MML config dump of Huawei USN9810 (SGSN/MME)' required to browse in tool as input.
4. Output excel file will be generated @ C:\Automation\ENB_TAC_LAC_VLR.xlsx **on your PC**

2) Automation_Tool_Nokia_MGW_Signalling_Link_Status

Use of Tool :

1. In Outage/Emergency condition, it will be useful to get the link status of all the nodes in seconds.
2. In a click, 1st cut information for Link Outage can be collected.
3. Can keep the track of Links operational status (Link Association wise/Nodewise/Location wise/Circle wise) for improvement in Nw.
4. It saves man hours to get the details manually by login and executing commands in each node.
5. Human errors can be avoided using this tool.

System Requirement for Tool :

1. Tool is available in Executable Package, can use on any 64 bit Windows machine (No need to install it).
2. The Nokia MGWs for which this tool will be used, must be reachable from your PC/System

Tool will work as below:

Step1) Click Here to Download the Tool - Automation_Tool_Nokia_MGW_Signalling_Link_Status

Step 2) Fill the node login details of Nokia ATCA & Non-ATCA MGWs correctly in excel Sheet named **'Nokia MGW Login Details.xlsx'** and save it somewhere i**n PC** (Click here for sample reference sheet)

Step 3) Run the Exe file of Tool 'Automation_Tool_Nokia_MGW_Signalling_Link_Status' **wait for 5-10 sec.**

Step 4) Browse the **'Nokia MGW Login Details.xlsx'** as login details to the tool.

Step 5) Tool will login the nodes through Putty and get the command o/p of **'show signalling ss7 link all'** and process to get the link details in below table format and save in excel **'Nokia MGW – Link Operation Status.xlsx'** in **C:/Automation** folder.

index	NODE NAME	LINK TYPE	PEER NAME	Active - Links (Count)	Inactive - Links (Count)	Total Links (Count)
0	XTMMGW10 [2019-08-02 20:37:15 +0530]	TDM BASED LINKS	BERTx	2	0	2
1	XMMGW10 [2019-08-02 20:37:15 +0530]	M3UA BASED Links	SWN Tx	1	1	2
2	PTXMGW20 [2019-08-02 20:37:15 +0530]	TDM BASED LINKS	ChikagoTx	1	1	2

Notes: Automation_Tool_Nokia_MGW_Signalling_Link_Status :

1. Tool processes the data irrespective of number of nodes (only condition, correct login details to be filled in login excel file in given format only)
2. Tool tested with 12 MGWs at a time, it takes 15-25 sec for execution. (Execution time may increase in seconds with the number of nodes.)
3. Processed data is in easy readable format and available in excel.
4. Node Type, Node Host IP, User Name and Password must be correct, rest all the things will be done by tool.

3) Automation_Tool_PING_LOG_Details_In_Excel

Use of Tool :

1. It will be useful to save man-hours to get the ping dump manually processed and copy-paste Packet Loss and Latency data manually in excel.
2. In a click, It will process the ping responses saved in text file and prepare the details in excel sheet.
3. Can keep the track of Packet Loss and latency for any particular URL or connectivity.
4. Large size logs also can be processed in seconds.

System Requirement for Tool :

1. Tool is available in Executable Package, can use on any 64 bit Windows machine (No need to install it).
2. The Ping log dump must be given as input file to tool.

Tool will work as below:

Step 1) Click Here to Download the Tool - Automation_Tool_PING_LOG_Details_In_Excel

Step 2) Run the Exe file of Tool **'**Automation_Tool_PING_LOG_Details_In_Excel **' wait for 5-10 sec.**

Step 3) Browse the **PING LOG text file** as input to the tool (Click here for Sample input file).

Step 4) Tool will process the text file of Ping log dump to get the Ping details in below table format and save in excel **'OUTPUT.xlsx'** in **C:/Automation** folder. (Click here for sample output file). Output will look as below.

	Data				
Col1	IP	Latency min/avg/max (ms)	Packet Los	Packet(s) Received	Packet(s) Transmitted
Col2					
--- 201f:6789:84:4321::22 ping statistics ---	--- 201f:6789:84:4321::22 ping statistics ---	round-trip min/avg/max = 1/17/158 ms	0.00% packet loss	50 packet(s) received	50 packet(s) transmitted
--- 32.5.55.133 ping statistics ---	--- 32.5.55.133 ping statistics ---	round-trip min/avg/max = 1/29/153 ms	0.00% packet loss	50 packet(s) received	50 packet(s) transmitted