Coverage
Based
Handover

- Before running this tool you need to do following steps.
- Download files from shared links and save on your local machine.
- Folder contains two file , one PDF file entitled Readme which is what you are reading.
- Second and main file is a windows executable file you will use to extract parameters from Configuration file exported from OSS.

How to use

- Input for the Tool is "LTE Bulk Configuration" file exported from OSS.
- To have this file you need to log in to your OSS account and go to "Planned Area Management".
- It needs to create a planned area and add all your objected NEs to planned area.
- Consider if you are using an old planned area you need to synchronize the planned area.
- After Creating or synchronizing planned area , from "LTE application" Menu , you can export " LTE Bulk Configuration" file.
- The file need to have following MOs. Any MO rather than these MOs will not lead to error but if your export doesn't have one MO , you will receive error.

    - CELL
    - EUTRANINTERNFREQ
    - PDSCHCFG
    - CELLDLPCPDSCHPA
    - CELLSEL
    - CELLRESEL
    - INTRARATHOCOMM
    - INTERFREQHOGROUP

- After exporting LTE Bulk Configuration file , you need to save it on same folder as .exe file.
- No need to change any thing inside exported file , the only change required is to rename exported file and set the name to be "Config".
- Any name except "Config" you will receive error.

How to use

- After exporting LTE Bulk Configuration file , you need to save it on same folder as .exe file.
- No need to change any thing inside exported file , the only change required is to rename exported file and set the name to be "Config".
- Any name except "Config" you will receive error.

Name	Date modified	Type	Size
Config	8/4/2023 9:27 PM	Microsoft Excel W...	3,600 KB
Coverage_Based_Mobility	9/3/2023 12:41 PM	Application	91,884 KB
Readme	7/26/2023 3:26 PM	Microsoft PowerP...	103 KB

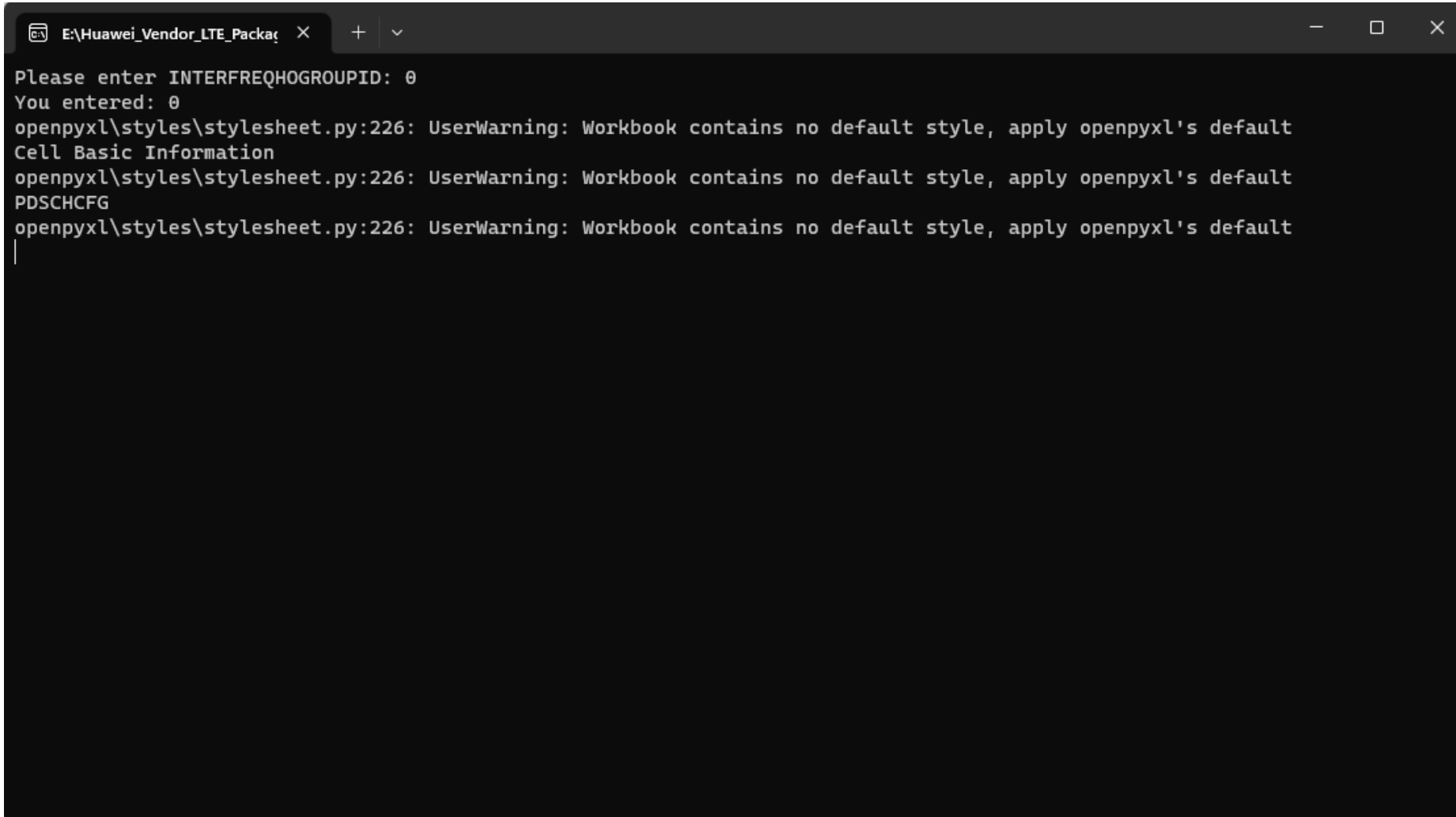# How to use

- If you double click on the .exe file , it will start processing by asking you to enter the "INTERFREQGROUPID" . It should be noted that, this number may change from network to network and even on one network it is possible to use different INTERFREQGROUPIDs for different QCIs. So you need to provide this number.
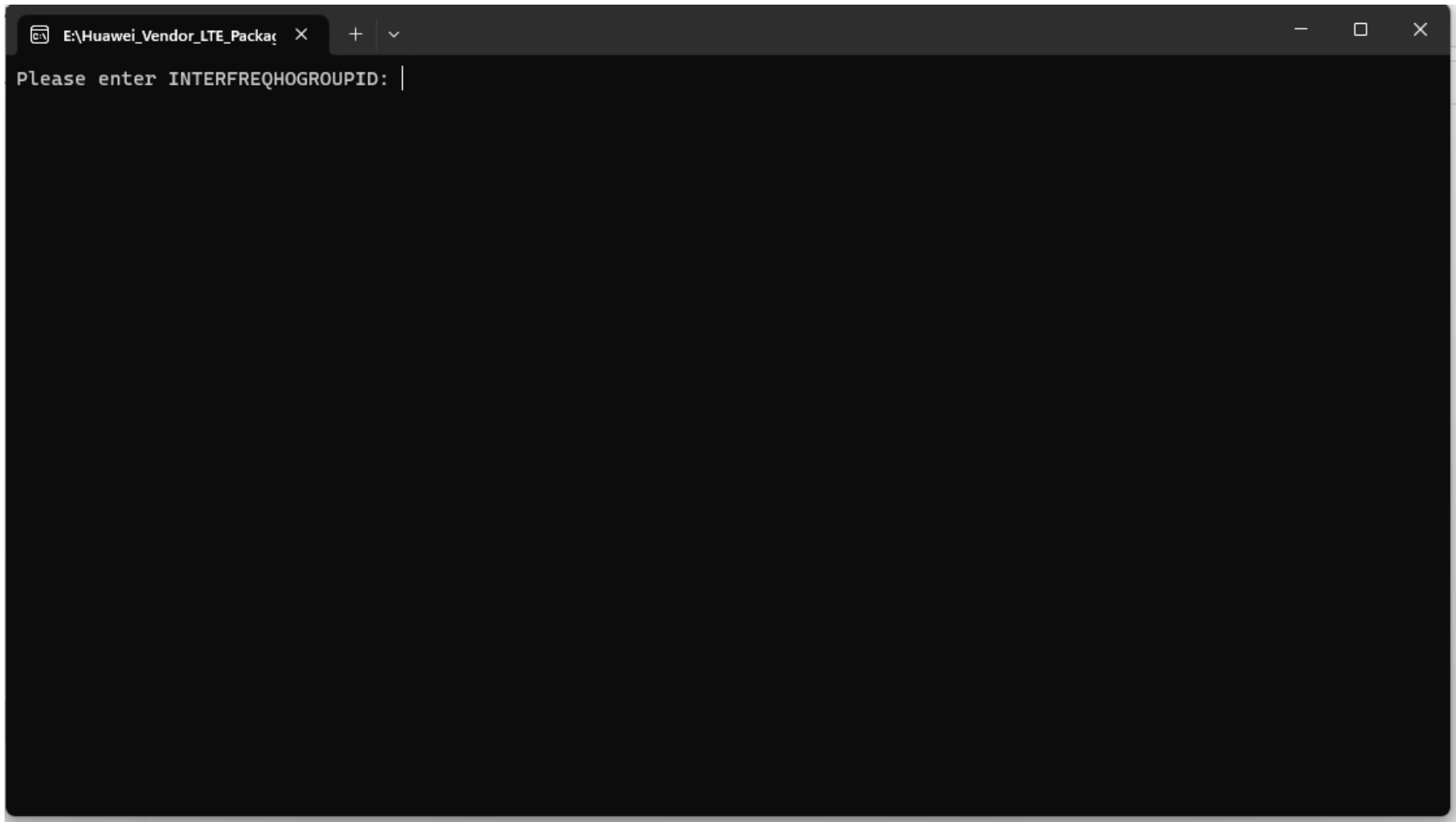
How to use

- If you receive below warning it is ok and don't worry.

How to use

- At the end you will receive one excel file which includes all parameters you need to do optimization for coverage based handover and
- Mobility strategy planning.

Name	Date modified	Type	Size
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- In the output file , for each cell you may see multiple row like snapshot given below because for each cell you may have several EUTRANINTERNFREQ MO .

	A	B	X
	Basic Information	Basic Information	EUTRANINTERNFREQ E
	*eNodeB Name	*Local cell ID	NFREQ ARFCN S
0	1909	1	) 1
1	1909	1	; 1
2	1909	1	) 1
3	1909	1	) 1
4	1909	1	) 1
5	1909	1	! 1
6	1909	1	) 1
7	1909	1	! 1
8	1909	1	) 1

How to use

- List of Parameters

Basic Information	*eNodeB Name
Basic Information	*Local cell ID
Basic Information	*Cell Name
Basic Information	Cell active state
Basic Information	*Cell FDD TDD indication
Basic Information	SRC_CELL_ARFCN
Basic Information	Downlink bandwidth
Basic Information	CRS Port Number
Basic Information	*Cell transmission and reception mode
Power Configuration	Reference signal power(0.1dBm)
Power Configuration	PB
Power Configuration	PA for even power distribution(dB)
CELLSEL	Minimum required RX level(2dBm)_x
CELLSEL	Minimum required RX quality level(dB)
CELLSEL	Cell_Selection_Quantity
CELLRESEL	Cell reselection priority
CELLRESEL	Threshold for non-intra freq measurements configure indicator
CELLRESEL	Threshold for non-intra frequency measurements(2dB)
CELLRESEL	Serving frequency lower priority threshold(2dB)
CELLRESEL	Minimum required quality level configure indicator
CELLRESEL	RSRQ Threshold for non-intra frequency measurements(dB)
CELLRESEL	Serving frequency lower priority RSRQ threshold configure indicator
CELLRESEL	Serving frequency lower priority RSRQ threshold(dB)

How to use

- List of Parameters

EUTRANINTERNFREQ	NFREQ_ARFCN
EUTRANINTERNFREQ	SRC_To_TGT
EUTRANINTERNFREQ	Inter frequency cell resel priority configure indicator
EUTRANINTERNFREQ	Inter frequency cell resel priority
EUTRANINTERNFREQ	Priority Strategy
EUTRANINTERNFREQ	Minimum RX signal quality configuration indicator
EUTRANINTERNFREQ	Minimum required RX level(2dBm)_y
EUTRANINTERNFREQ	Minimum RX signal quality(dB)
EUTRANINTERNFREQ	Inter frequency high priority threshold(2dB)
EUTRANINTERNFREQ	Inter frequency lower priority threshold(2dB)
For Same Priority	Frequency offset(dB)
For Same Priority	Hysteresis value for ranking criteria(dB)
Inter Freq HO Event Type from EUTRANINTERNFREQ	Inter-Freq HO trigger Event Type
Measurement Configuration	Interfreq A1A2 time to trigger(ms)
Measurement Configuration	Interfreq HandOver Time to Trigger(ms)
Measurement Configuration	InterFreq A1A2 Measurement trigger quantity
Measurement Configuration	A4 Measurement Trigger Quantity
Measurement Configuration	Measurement A4 report quantity
Measurement Configuration	Interfreq measurement report interval
Measurement Configuration	A3 measurement trigger quantity
Measurement Configuration	A3 measurement report quantity
Measurement Configuration	A3 measurement report interval
Measurement Configuration	A3 InterFreq A1A2 Measurement TrigQuan

How to use

- List of Parameters

Group ID	*Interfreq handover group ID
A4A5 RSRP based Handover	A4A5 Based Interfreq A1 RSRP Threshold(dBm)
A4A5 RSRP based Handover	A4A5 Based Interfreq A2 RSRP Threshold(dBm)
A4A5 RSRP based Handover	CoverageBased Interfreq RSRP threshold(dBm)
A4A5 RSRP based Handover	Cov-based Inter-Freq HO Thd RSRP Offset(dB)
A4A5 RSRP based Handover	Interfreq A5 RSRP threshold 1(dBm)
A4A5 Hyst	Interfreq A1A2 hysteresis(0.5dB)
A4A5 Hyst	Interfreq handover hysteresis(0.5dB)
A4A5 RSRQ based Handover	A4A5 Based Interfreq A1 RSRQ Threshold(0.5dB)
A4A5 RSRQ based Handover	A4A5 Based Interfreq A2 RSRQ Threshold(0.5dB)
A4A5 RSRQ based Handover	CoverageBased Interfreq RSRQ threshold(0.5dB)
A4A5 RSRQ based Handover	Interfreq A5 RSRQ threshold 1(0.5dB)
A3 based Handover	A3 based interfreq A1 RSRP threshold(dBm)
A3 based Handover	A3 based Interfreq A2 RSRP threshold(dBm)
A3 based Handover	A3 Based Interfreq A1 RSRQ Threshold(0.5dB)
A3 based Handover	A3 Based Interfreq A2 RSRQ Threshold(0.5dB)
A3 based Handover	Interfreq A3 offset(0.5dB)
A3 based Handover	Ocs_Cell specific offset(dB)
A3 based Handover	Ofs_Frequency offset(dB)
A3 based Handover	Ofn : Frequency Offset for Connected Mode(dB)