

Seychelles Static Test

District: La Digue

Date of Testing:- 25th Oct 2024

Report Date:- 31st Oct 2024

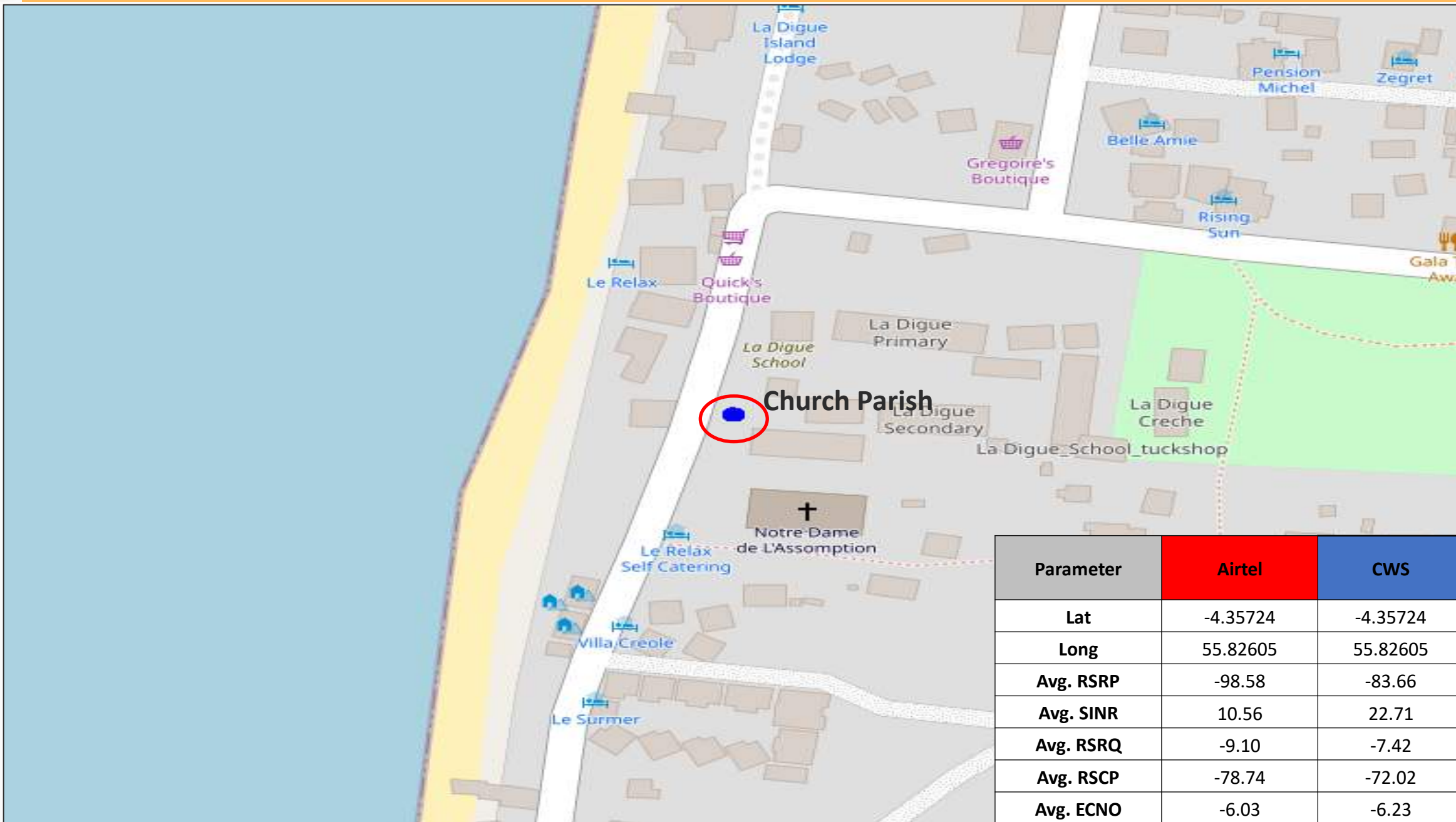
VOICE TEST METHODOLOGY

DATA	Test Type and Timeout	Technology 3G Preferred	Technology 4G Preferred
POP always on. ICMP PAYLOAD PING 800 BYTES			
1	FILE TRANSFER DOWNLOAD 135s	FTP DL (3MB) wait 10s	FTP DL (5MB) wait 10s
2	FILE TRANSFER UPLOAD 135s	FTP UL (1MB) wait 10s	FTP UL (3MB) wait 10s
3	FILE TRANSFER DOWNLOAD 135s	HTTP Get (3MB) wait 10s	HTTP Get (5MB) wait 10s
4	FILE TRANSFER UPLOAD 135s	HTTP Put (1MB) wait 10s	HTTP Put (3MB) wait 10s
5	ICMP PING 32 BYTES	Ping (32 bytes) *5 wait 10s	Ping (32 bytes) *5 wait 10s
6	YOUTUBE STREAMING 95 seconds	Video: YouTube 60sec wait 10s	Video: YouTube 60sec wait 10s
7	KEPLER WEB BROWSING 45s	HTTPS Browsing: Kepler wait 10s	HTTPS Browsing: Kepler wait 10s
8	LIVE WEB BROWSING 45s	www.shein.com, www.nbs.gov.sc, www.sbc.sc wait 10s	www.shein.com, www.nbs.gov.sc, www.sbc.sc wait 10s
9	KEPLER MOBILE WEB BROWSING 45s	HTTPS Browsing: Kepler Mobile wait 10s	HTTPS Browsing: Kepler Mobile wait 10s
10	ICMP PING 32 BYTES	Ping (32 bytes) 5 www.google.com wait 10s	Ping (32 bytes) 5 www.google.com wait 10s
11	FILE TRANSFER-CAPACITY DOWNLOAD 10s fixed duration	HTTP Get (500MB) Multiple files wait 10s	HTTP Get (500MB) Multiple files wait 10s
12	FILE TRANSFER-CAPACITY UPLOAD 10s fixed duration	HTTP Put (500MB)-Multiple Files wait 10s	HTTP Put (500MB)-Multiple Files wait 10s

Static Points Location – Cluster La Digue



Static Point Location 1 - Church Parish



Parameter	Airtel	CWS
Lat	-4.35724	-4.35724
Long	55.82605	55.82605
Avg. RSRP	-98.58	-83.66
Avg. SINR	10.56	22.71
Avg. RSRQ	-9.10	-7.42
Avg. RSCP	-78.74	-72.02
Avg. ECNO	-6.03	-6.23

4G Preferred Data Findings:

- Airtel SFTP DL is (16.56 Mbps), while SFTP UL is (8.38 Mbps), CWS SFTP DL is (6.51 Mbps), while SFTP UL is (2.04 Mbps)
- Airtel HTTP DL is (26.30 Mbps), HTTP Capacity DL is (92.05 Mbps) ,HTTP UL is (14.17 Mbps) , and HTTP Capacity UL is (28.46 Mbps).
- CWS HTTP DL is (9.38 Mbps), HTTP Capacity DL is (76.67 Mbps) ,HTTP UL is (3.20 Mbps) , and HTTP Capacity UL is (21.10 Mbps).
- On live web page testing for browsing, www.shein.com took (6.23s), www.nbs.gov.sc took (17.33s), and www.sbc.sc took (15.41s) on Airtel.
- On live web page testing for browsing, www.shein.com took (6.69s), www.nbs.gov.sc took (17.03s), and www.sbc.sc took (18.02s) on CWS.
- On static browsing, Kepler Webpage took (4.08s), and Kepler Mobile took (1.66s) on Airtel.
- On static browsing, Kepler Webpage took (4.98s), and Kepler Mobile took (3.10s) on CWS.
- YouTube average resolution in Airtel is (1080.00) pixels.
- YouTube average resolution in CWS is (1080.00) pixels.
- Airtel scored 25.00% in Carrier Aggregation (CA).
- CWS scored 55.56% in Carrier Aggregation (CA).

3G Preferred Data Test Findings:

- Airtel SFTP DL is (7.23 Mbps), while SFTP UL is (2.27 Mbps), CWS SFTP DL is (2.88 Mbps), while SFTP UL is (0.45 Mbps)
- Airtel HTTP DL is (6.37 Mbps), HTTP Capacity DL is (11.41 Mbps) ,HTTP UL is (3.28 Mbps) , and HTTP Capacity UL is (6.23 Mbps).
- CWS HTTP DL is (2.77 Mbps), HTTP Capacity DL is (14.57 Mbps) ,HTTP UL is (1.03 Mbps) , and HTTP Capacity UL is (3.85 Mbps).
- On live web page testing for browsing, www.shein.com took (8.09s), www.nbs.gov.sc took (10.55s), and www.sbc.sc took (11.24s) on Airtel.
- On live web page testing for browsing, www.shein.com took (6.78s), www.nbs.gov.sc took (7.60s), and www.sbc.sc took (8.99s) on CWS.
- On static browsing, Kepler Webpage took (3.40s), and Kepler Mobile took (1.59s) on Airtel.
- On static browsing, Kepler Webpage took (5.04s), and Kepler Mobile took (2.48s) on CWS.
- YouTube average resolution in Airtel is (1080.00) pixels.
- YouTube average resolution in CWS is (1080.00) pixels.

DRIVE TEST KPI STATISTICS

DATA Scenario		3G Preferred				4G Preferred			
		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	7.23	2.88	1	2	16.56	6.51	1	2
	SFTP UL(Mbps)	2.27	0.45	1	2	8.38	2.04	1	2
	HTTP DL(Mbps)	6.37	2.77	1	2	26.30	9.38	1	2
	HTTP UL(Mbps)	3.28	1.03	1	2	14.17	3.20	1	2
	HTTP Capacity DL(Mbps)	11.41	14.57	2	1	92.05	76.67	1	2
	HTTP Capacity UL(Mbps)	6.23	3.85	1	2	28.46	21.10	1	2
BROWSER	Overall Browser DL Time (s)	7.07	6.15	2	1	9.01	10.09	1	2
	Kepler Webpage DL Time (s)	3.40	5.04	1	2	4.08	4.98	1	2
	Mobile Kepler Webpage DL Time (s)	1.59	2.48	1	2	1.66	3.10	1	2
	www.shein.com Webpage DL Time (s)	8.09	6.78	2	1	6.23	6.69	1	2
	www.nbs.gov.sc Webpage DL Time (s)	10.55	7.60	2	1	17.33	17.03	2	1
	www.sbc.sc Webpage DL Time (s)	11.24	8.99	2	1	15.41	18.02	1	2
LATENCY	Avg Latency (ms)	278.13	218.00	2	1	265.56	327.28	1	2
	Median Latency (ms)	400	158	2	1	266	341	1	2
YOUTUBE	YouTube Access Time (s)	3.18	2.04	2	1	5.13	1.93	2	1
	YouTube Average Resolution (pixels)	1080.00	1080.00	1	1	1080.00	1080.00	1	1
	YouTube Success Ratio [%]	100.00	70.00	1	2	100.00	88.89	1	2

4G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	13	7	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	13	5	100.00	62.50
	Failure	0	3	0.00	37.50
HTTP DL	Success	13	8	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	13	8	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	13	8	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	12	8	100.00	57.14
	Failure	0	6	0.00	42.86

DATA Scenario		Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	16.56	6.51	1	2
	SFTP UL(Mbps)	8.38	2.04	1	2
	HTTP DL(Mbps)	26.30	9.38	1	2
	HTTP UL(Mbps)	14.17	3.20	1	2
	HTTP Capacity DL(Mbps)	92.05	76.67	1	2
	HTTP Capacity UL(Mbps)	28.46	21.10	1	2

4G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	12	7	92.31	87.50
	Failure	1	1	7.69	12.50
Mobile Kepler	Success	13	8	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	13	8	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	13	8	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	13	8	100.00	100.00
	Failure	0	0	0.00	0.00

DATA Scenario		Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
BROWSER	Overall Browser DL Time (s)	9.01	10.09	1	2
	Kepler Webpage DL Time (s)	4.08	4.98	1	2
	Mobile Kepler Webpage DL Time (s)	1.66	3.10	1	2
	www.shein.com Webpage DL Time (s)	6.23	6.69	1	2
	www.nbs.gov.sc Webpage DL Time (s)	17.33	17.03	2	1
	www.sbc.sc Webpage DL Time (s)	15.41	18.02	1	2

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	26	15
	Average Latency [ms]	261.96	303.93
	Median Latency [ms]	261	266
	Ping session status: Successful	26	15
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	1
	Packet Loss<1%	0.00	6.25
www.google.com	Average Latency [ms]	404.08	231.88
	Median Latency [ms]	402	163
	Ping session status: Successful	13	8
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	119.85	386.29
	Median Latency [ms]	119	399
	Ping session status: Successful	13	7
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	1
	Packet Loss<1%	0.00	12.50

LTE YOUTUBE Success Ratio		
KPIs	Airtel Data 4G	CWS Data 4G
Attempt(Count)	13	9
Success(Count)	13	8
Failure(Count)	0	1
YouTube Access Time (s)	5.13	1.93
YouTube Average Resolution (pixels)	1080.00	1080.00
YouTube Success Ratio [%]	100.00	88.89

3G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	11	7	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	11	8	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	11	8	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	11	8	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	10	9	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	10	5	100.00	38.46
	Failure	0	8	0.00	61.54

DATA Scenario		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	7.23	2.88	1	2
	SFTP UL(Mbps)	2.27	0.45	1	2
	HTTP DL(Mbps)	6.37	2.77	1	2
	HTTP UL(Mbps)	3.28	1.03	1	2
	HTTP Capacity DL(Mbps)	11.41	14.57	2	1
	HTTP Capacity UL(Mbps)	6.23	3.85	1	2

3G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	11	8	100.00	100.00
	Failure	0	0	0.00	0.00
Mobile Kepler	Success	10	9	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	11	8	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	11	8	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	11	9	100.00	100.00
	Failure	0	0	0.00	0.00

DATA Scenario		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
BROWSER	Overall Browser DL Time (s)	7.07	6.15	2	1
	Kepler Webpage DL Time (s)	3.40	5.04	1	2
	Mobile Kepler Webpage DL Time (s)	1.59	2.48	1	2
	www.shein.com Webpage DL Time (s)	8.09	6.78	2	1
	www.nbs.gov.sc Webpage DL Time (s)	10.55	7.60	2	1
	www.sbc.sc Webpage DL Time (s)	11.24	8.99	2	1

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	12	13
	Average Latency [ms]	375.58	167.00
	Median Latency [ms]	415	154
	Ping session status: Successful	12	13
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	9	4
	Packet Loss<1%	42.86	23.53
www.google.com	Average Latency [ms]	423.30	145.22
	Median Latency [ms]	423	141
	Ping session status: Successful	10	9
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	137.00	216.00
	Median Latency [ms]	137	216
	Ping session status: Successful	2	4
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	9	4
	Packet Loss<1%	81.82	50.00

UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	11	10
Success(Count)	11	7
Failure(Count)	0	3
YouTube Access Time (s)	3.18	2.04
YouTube Average Resolution (pixels)	1080.00	1080.00
YouTube Success Ratio [%]	100.00	70.00

Static Point Location 2 - La Passe/ Jetty



Parameter	Airtel	CWS
Lat	-4.34875	-4.34875
Long	55.82861	55.82861
Avg. RSRP	-107.94	-99.62
Avg. SINR	5.28	14.76
Avg. RSRQ	-10.47	-7.91
Avg. RSCP	-91.43	-74.28
Avg. ECNO	-8.53	-4.63

4G Preferred Data Findings:

- Airtel SFTP DL is (13.65 Mbps), while SFTP UL is (3.77 Mbps), CWS SFTP DL is (6.91 Mbps), while SFTP UL is (1.32 Mbps)
- Airtel HTTP DL is (17.97 Mbps), HTTP Capacity DL is (31.07 Mbps) ,HTTP UL is (5.18 Mbps) , and HTTP Capacity UL is (10.61 Mbps).
- CWS HTTP DL is (11.27 Mbps), HTTP Capacity DL is (63.35 Mbps) ,HTTP UL is (1.04 Mbps) , and HTTP Capacity UL is (8.58 Mbps).
- On live web page testing for browsing, www.shein.com took (6.29s), www.nbs.gov.sc took (18.19s), and www.sbc.sc took (16.17s) on Airtel.
- On live web page testing for browsing, www.shein.com took (5.83s), www.nbs.gov.sc took (17.71s), and www.sbc.sc took (18.27s) on CWS.
- On static browsing, Kepler Webpage took (4.22s), and Kepler Mobile took (1.78s) on Airtel.
- On static browsing, Kepler Webpage took (4.82s), and Kepler Mobile took (2.96s) on CWS.
- YouTube average resolution in Airtel is (1080.00) pixels.
- YouTube average resolution in CWS is (1080.00) pixels.
- Airtel scored 40.00% in Carrier Aggregation (CA).
- CWS scored 40.00% in Carrier Aggregation (CA).

3G Preferred Data Test Findings:

- Airtel SFTP DL is (4.88 Mbps), while SFTP UL is (1.64 Mbps), CWS SFTP DL is (3.15 Mbps), while SFTP UL is (0.63 Mbps)
- Airtel HTTP DL is (5.53 Mbps), HTTP Capacity DL is (7.30 Mbps) ,HTTP UL is (1.95 Mbps) , and HTTP Capacity UL is (4.80 Mbps).
- CWS HTTP DL is (2.85 Mbps), HTTP Capacity DL is (17.05 Mbps) ,HTTP UL is (1.15 Mbps) , and HTTP Capacity UL is (4.36 Mbps).
- On live web page testing for browsing, www.shein.com took (8.56s), www.nbs.gov.sc took (10.78s), and www.sbc.sc took (12.19s) on Airtel.
- On live web page testing for browsing, www.shein.com took (5.91s), www.nbs.gov.sc took (7.43s), and www.sbc.sc took (8.17s) on CWS.
- On static browsing, Kepler Webpage took (3.63s), and Kepler Mobile took (1.79s) on Airtel.
- On static browsing, Kepler Webpage took (5.22s), and Kepler Mobile took (2.57s) on CWS.
- YouTube average resolution in Airtel is (1080.00) pixels.
- YouTube average resolution in CWS is (1080.00) pixels.

DRIVE TEST KPI STATISTICS

DATA Scenario		3G Preferred				4G Preferred			
		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	4.88	3.15	1	2	13.65	6.91	1	2
	SFTP UL(Mbps)	1.64	0.63	1	2	3.77	1.32	1	2
	HTTP DL(Mbps)	5.53	2.85	1	2	17.97	11.27	1	2
	HTTP UL(Mbps)	1.95	1.15	1	2	5.18	1.04	1	2
	HTTP Capacity DL(Mbps)	7.30	17.05	2	1	31.07	63.35	2	1
	HTTP Capacity UL(Mbps)	4.80	4.36	1	2	10.61	8.58	1	2
BROWSER	Overall Browser DL Time (s)	7.31	5.86	2	1	9.52	9.91	1	2
	Kepler Webpage DL Time (s)	3.63	5.22	1	2	4.22	4.82	1	2
	Mobile Kepler Webpage DL Time (s)	1.79	2.57	1	2	1.78	2.96	1	2
	www.shein.com Webpage DL Time (s)	8.56	5.91	2	1	6.29	5.83	2	1
	www.nbs.gov.sc Webpage DL Time (s)	10.78	7.43	2	1	18.19	17.71	2	1
	www.sbc.sc Webpage DL Time (s)	12.19	8.17	2	1	16.71	18.27	1	2
LATENCY	Avg Latency (ms)	282.85	175.55	2	1	263.86	175.17	2	1
	Median Latency (ms)	401	200	2	1	136	173	1	2
YOUTUBE	YouTube Access Time (s)	3.24	1.84	2	1	5.16	1.48	2	1
	YouTube Average Resolution (pixels)	1080.00	1080.00	1	1	1080.00	1080.00	1	1
	YouTube Success Ratio [%]	100.00	100.00	1	1	92.31	100.00	2	1

4G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	13	10	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	13	1	100.00	10.00
	Failure	0	9	0.00	90.00
HTTP DL	Success	13	9	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	13	4	100.00	44.44
	Failure	0	5	0.00	55.56
HTTP Capacity DL	Success	12	9	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	12	9	100.00	100.00
	Failure	0	0	0.00	0.00

DATA Scenario		Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	13.65	6.91	1	2
	SFTP UL(Mbps)	3.77	1.32	1	2
	HTTP DL(Mbps)	17.97	11.27	1	2
	HTTP UL(Mbps)	5.18	1.04	1	2
	HTTP Capacity DL(Mbps)	31.07	63.35	2	1
	HTTP Capacity UL(Mbps)	10.61	8.58	1	2

4G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	11	9	91.67	100.00
	Failure	1	0	8.33	0.00
Mobile Kepler	Success	12	9	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	12	9	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	12	9	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	12	9	100.00	100.00
	Failure	0	0	0.00	0.00

DATA Scenario		Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
BROWSER	Overall Browser DL Time (s)	9.52	9.91	1	2
	Kepler Webpage DL Time (s)	4.22	4.82	1	2
	Mobile Kepler Webpage DL Time (s)	1.78	2.96	1	2
	www.shein.com Webpage DL Time (s)	6.29	5.83	2	1
	www.nbs.gov.sc Webpage DL Time (s)	18.19	17.71	2	1
	www.sbc.sc Webpage DL Time (s)	16.71	18.27	1	2

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	25	16
	Average Latency [ms]	263.12	174.75
	Median Latency [ms]	159	167
	Ping session status: Successful	25	16
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	2
	Packet Loss<1%	0.00	11.11
www.google.com	Average Latency [ms]	414.33	152.78
	Median Latency [ms]	413	151
	Ping session status: Successful	12	9
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	123.54	203.00
	Median Latency [ms]	120	203
	Ping session status: Successful	13	7
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	2
	Packet Loss<1%	0.00	22.22

Latency 250ms

LTE YOUTUBE Success Ratio		
KPIs	Airtel Data 4G	CWS Data 4G
Attempt(Count)	13	9
Success(Count)	12	9
Failure(Count)	1	0
YouTube Access Time (s)	5.16	1.48
YouTube Average Resolution (pixels)	1080.00	1080.00
YouTube Success Ratio [%]	92.31	100.00

3G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	11	6	100.00	60.00
	Failure	0	4	0.00	40.00
HTTP Capacity DL	Success	10	9	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	10	9	100.00	100.00
	Failure	0	0	0.00	0.00

DATA Scenario		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	4.88	3.15	1	2
	SFTP UL(Mbps)	1.64	0.63	1	2
	HTTP DL(Mbps)	5.53	2.85	1	2
	HTTP UL(Mbps)	1.95	1.15	1	2
	HTTP Capacity DL(Mbps)	7.30	17.05	2	1
	HTTP Capacity UL(Mbps)	4.80	4.36	1	2

3G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	11	9	100.00	100.00
	Failure	0	0	0.00	0.00
Mobile Kepler	Success	10	9	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	10	9	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	10	9	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	10	9	100.00	100.00
	Failure	0	0	0.00	0.00

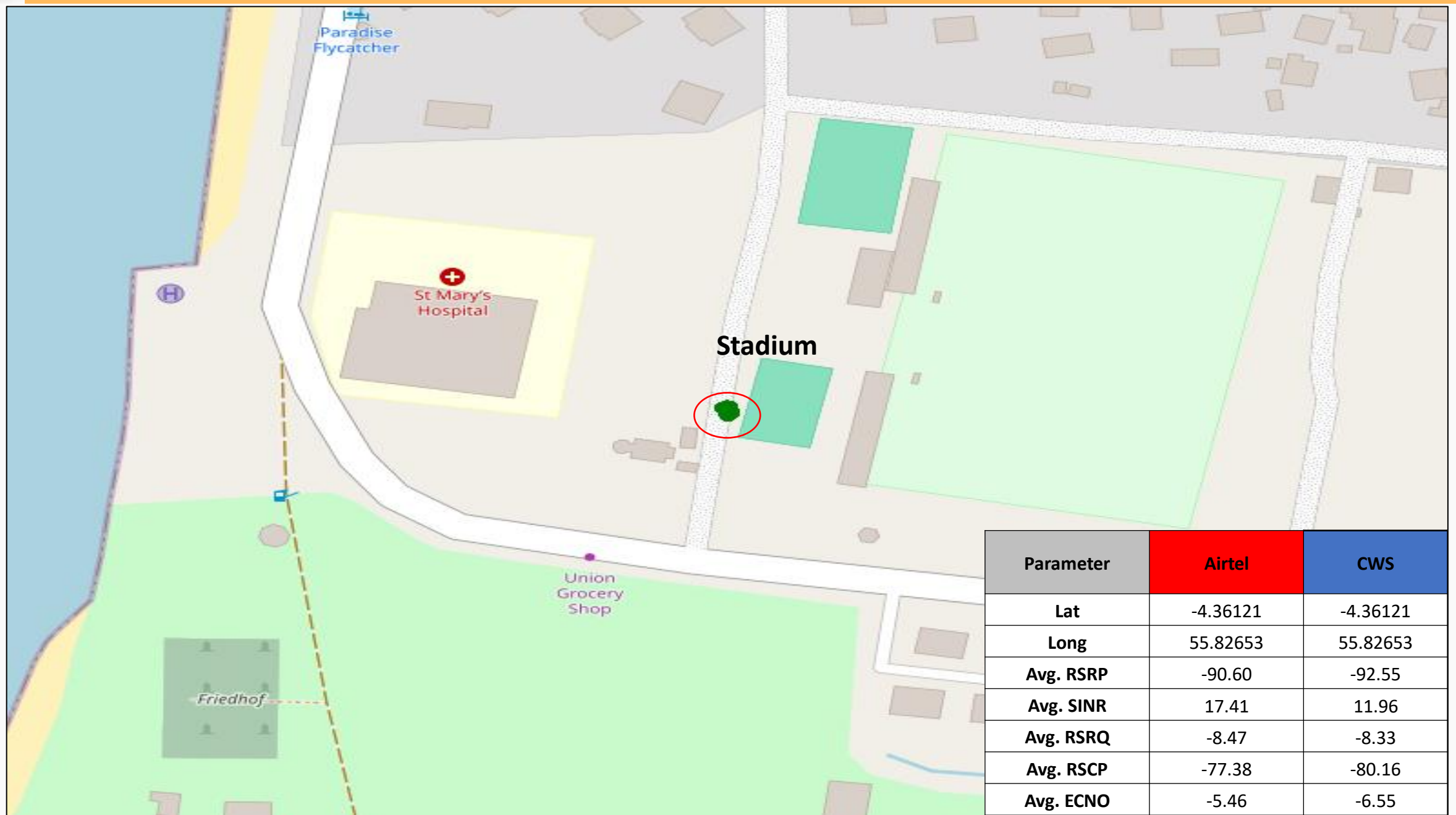
DATA Scenario		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
BROWSER	Overall Browser DL Time (s)	7.31	5.86	2	1
	Kepler Webpage DL Time (s)	3.63	5.22	1	2
	Mobile Kepler Webpage DL Time (s)	1.79	2.57	1	2
	www.shein.com Webpage DL Time (s)	8.56	5.91	2	1
	www.nbs.gov.sc Webpage DL Time (s)	10.78	7.43	2	1
	www.sbc.sc Webpage DL Time (s)	12.19	8.17	2	1

3G PREFERRED LATENCY & YOUTUBE COMPARISON

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	15	18
	Average Latency [ms]	338.53	176.06
	Median Latency [ms]	417	172
	Ping session status: Successful	15	18
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	6	1
	Packet Loss<1%	28.57	5.26
www.google.com	Average Latency [ms]	425.30	138.67
	Median Latency [ms]	427	139
	Ping session status: Successful	10	9
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	165.00	213.44
	Median Latency [ms]	137	210
	Ping session status: Successful	5	9
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	6	1
	Packet Loss<1%	54.55	10.00

UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	11	10
Success(Count)	11	10
Failure(Count)	0	0
YouTube Access Time (s)	3.24	1.84
YouTube Average Resolution (pixels)	1080.00	1080.00
YouTube Success Ratio [%]	100.00	100.00

Static Point Location 3 - Stadium



Parameter	Airtel	CWS
Lat	-4.36121	-4.36121
Long	55.82653	55.82653
Avg. RSRP	-90.60	-92.55
Avg. SINR	17.41	11.96
Avg. RSRQ	-8.47	-8.33
Avg. RSCP	-77.38	-80.16
Avg. ECNO	-5.46	-6.55

4G Preferred Data Findings:

- All tests failed for the 4G CWS operator.
- Airtel SFTP DL is (15.95 Mbps), while SFTP UL is (8.81 Mbps), CWS SFTP DL is (0.00 Mbps), while SFTP UL is (0.00 Mbps)
- Airtel HTTP DL is (27.17 Mbps), HTTP Capacity DL is (98.95 Mbps) ,HTTP UL is (15.63 Mbps) , and HTTP Capacity UL is (34.31 Mbps).
- CWS HTTP DL is (0.00 Mbps), HTTP Capacity DL is (0.00 Mbps) ,HTTP UL is (0.00 Mbps) , and HTTP Capacity UL is (0.00 Mbps).
- On live web page testing for browsing, www.shein.com took (6.27s), www.nbs.gov.sc took (16.41s), and www.sbc.sc took (14.94s) on Airtel.
- On live web page testing for browsing, www.shein.com took (N/As), www.nbs.gov.sc took (N/As), and www.sbc.sc took (N/As) on CWS.
- On static browsing, Kepler Webpage took (3.82s), and Kepler Mobile took (1.65s) on Airtel.
- On static browsing, Kepler Webpage took (N/As), and Kepler Mobile took (N/As) on CWS.
- YouTube average resolution in Airtel is (1080.00) pixels.
- YouTube average resolution in CWS is (N/A) pixels.
- Airtel scored 35.29% in Carrier Aggregation (CA).
- CWS scored 26.09% in Carrier Aggregation (CA).

3G Preferred Data Test Findings:

- Airtel SFTP DL is (6.11 Mbps), while SFTP UL is (2.21 Mbps), CWS SFTP DL is (4.16 Mbps), while SFTP UL is (1.20 Mbps)
- Airtel HTTP DL is (5.62 Mbps), HTTP Capacity DL is (9.06 Mbps) ,HTTP UL is (3.27 Mbps) , and HTTP Capacity UL is (6.31 Mbps).
- CWS HTTP DL is (3.13 Mbps), HTTP Capacity DL is (11.21 Mbps) ,HTTP UL is (2.16 Mbps) , and HTTP Capacity UL is (4.80 Mbps).
- On live web page testing for browsing, www.shein.com took (8.75s), www.nbs.gov.sc took (10.29s), and www.sbc.sc took (10.75s) on Airtel.
- On live web page testing for browsing, www.shein.com took (6.77s), www.nbs.gov.sc took (6.26s), and www.sbc.sc took (9.62s) on CWS.
- On static browsing, Kepler Webpage took (3.43s), and Kepler Mobile took (1.62s) on Airtel.
- On static browsing, Kepler Webpage took (4.94s), and Kepler Mobile took (2.31s) on CWS.
- YouTube average resolution in Airtel is (1080.00) pixels.
- YouTube average resolution in CWS is (1080.00) pixels.

DRIVE TEST KPI STATISTICS

DATA Scenario		3G Preferred				4G Preferred			
		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)	Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	6.11	4.16	1	2	15.95	0.00	1	2
	SFTP UL(Mbps)	2.21	1.20	1	2	8.81	0.00	1	2
	HTTP DL(Mbps)	5.62	3.13	1	2	27.17	0.00	1	2
	HTTP UL(Mbps)	3.27	2.16	1	2	15.63	0.00	1	2
	HTTP Capacity DL(Mbps)	9.06	11.21	2	1	98.95	0.00	1	2
	HTTP Capacity UL(Mbps)	6.31	4.80	1	2	34.31	0.00	1	2
BROWSER	Overall Browser DL Time (s)	6.96	5.95	2	1	8.69	N/A	1	2
	Kepler Webpage DL Time (s)	3.43	4.94	1	2	3.82	N/A	1	2
	Mobile Kepler Webpage DL Time (s)	1.62	2.31	1	2	1.65	N/A	1	2
	www.shein.com Webpage DL Time (s)	8.75	6.77	2	1	6.27	N/A	1	2
	www.nbs.gov.sc Webpage DL Time (s)	10.29	6.26	2	1	16.41	N/A	1	2
	www.sbc.sc Webpage DL Time (s)	10.75	9.62	2	1	14.94	N/A	1	2
LATENCY	Avg Latency (ms)	273.56	209.65	2	1	259.74	N/A	1	2
	Median Latency (ms)	400	148	2	1	128	N/A	1	2
YOUTUBE	YouTube Access Time (s)	3.24	1.87	2	1	5.22	N/A	1	2
	YouTube Average Resolution (pixels)	1080.00	1080.00	1	1	1080.00	N/A	1	2
	YouTube Success Ratio [%]	100.00	81.82	1	2	100.00	N/A	1	2

4G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	13	0	100.00	0.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	13	0	100.00	0.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	13	0	100.00	0.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	13	0	100.00	0.00
	Failure	0	5	0.00	100.00
HTTP Capacity DL	Success	12	0	100.00	0.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	12	0	100.00	0.00
	Failure	0	4	0.00	100.00

DATA Scenario		Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	15.95	0.00	1	2
	SFTP UL(Mbps)	8.81	0.00	1	2
	HTTP DL(Mbps)	27.17	0.00	1	2
	HTTP UL(Mbps)	15.63	0.00	1	2
	HTTP Capacity DL(Mbps)	98.95	0.00	1	2
	HTTP Capacity UL(Mbps)	34.31	0.00	1	2

4G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	12	0	100.00	0.00
	Failure	0	0	0.00	0.00
Mobile Kepler	Success	13	0	100.00	0.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	13	0	100.00	0.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	13	0	100.00	0.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	13	0	100.00	0.00
	Failure	0	0	0.00	0.00

DATA Scenario		Airtel 4G	CWS 4G	Airtel 4G (Rank)	CWS 4G (Rank)
BROWSER	Overall Browser DL Time (s)	8.69	N/A	1	2
	Kepler Webpage DL Time (s)	3.82	N/A	1	2
	Mobile Kepler Webpage DL Time (s)	1.65	N/A	1	2
	www.shein.com Webpage DL Time (s)	6.27	N/A	1	2
	www.nbs.gov.sc Webpage DL Time (s)	16.41	N/A	1	2
	www.sbc.sc Webpage DL Time (s)	14.94	N/A	1	2

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	25	N/A
	Average Latency [ms]	255.08	N/A
	Median Latency [ms]	125	N/A
	Ping session status: Successful	25	N/A
	Ping session status: Failed [Socket error]	0	N/A
	Ping session status: Failed [Protocol error timeout]	0	N/A
	Packet Loss<1%	0.00	N/A
www.google.com	Average Latency [ms]	402.58	N/A
	Median Latency [ms]	400	N/A
	Ping session status: Successful	12	N/A
	Ping session status: Failed [Socket error]	0	N/A
	Ping session status: Failed [Protocol error timeout]	0	N/A
	Packet Loss<1%	0.00	N/A
102.133.176.104	Average Latency [ms]	118.92	N/A
	Median Latency [ms]	119	N/A
	Ping session status: Successful	13	N/A
	Ping session status: Failed [Socket error]	0	N/A
	Ping session status: Failed [Protocol error timeout]	0	N/A
	Packet Loss<1%	0.00	N/A

LTE YOUTUBE Success Ratio		
KPIs	Airtel Data 4G	CWS Data 4G
Attempt(Count)	13	5
Success(Count)	13	0
Failure(Count)	0	5
YouTube Access Time (s)	5.22	0.00
YouTube Average Resolution (pixels)	1080.00	0.00
YouTube Success Ratio [%]	100.00	0.00

Latency 250ms

3G PREFERRED THROUGHPUT COMPARISON

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	11	9	100.00	81.82
	Failure	0	2	0.00	18.18
HTTP Capacity DL	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	10	9	100.00	90.00
	Failure	0	1	0.00	10.00

DATA Scenario		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
FILE TRANSFER	SFTP DL (Mbps)	6.11	4.16	1	2
	SFTP UL(Mbps)	2.21	1.20	1	2
	HTTP DL(Mbps)	5.62	3.13	1	2
	HTTP UL(Mbps)	3.27	2.16	1	2
	HTTP Capacity DL(Mbps)	9.06	11.21	2	1
	HTTP Capacity UL(Mbps)	6.31	4.80	1	2

3G PREFERRED BROWSING COMPARISON

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	11	11	100.00	100.00
	Failure	0	0	0.00	0.00
Mobile Kepler	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	11	10	100.00	100.00
	Failure	0	0	0.00	0.00

DATA Scenario		Airtel 3G	CWS 3G	Airtel 3G (Rank)	CWS 3G (Rank)
BROWSER	Overall Browser DL Time (s)	6.96	5.95	2	1
	Kepler Webpage DL Time (s)	3.43	4.94	1	2
	Mobile Kepler Webpage DL Time (s)	1.62	2.31	1	2
	www.shein.com Webpage DL Time (s)	8.75	6.77	2	1
	www.nbs.gov.sc Webpage DL Time (s)	10.29	6.26	2	1
	www.sbc.sc Webpage DL Time (s)	10.75	9.62	2	1

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	20	18
	Average Latency [ms]	290.15	179.11
	Median Latency [ms]	402	142
	Ping session status: Successful	20	18
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	2	2
	Packet Loss<1%	9.09	10.00
www.google.com	Average Latency [ms]	431.64	139.60
	Median Latency [ms]	418	140
	Ping session status: Successful	11	10
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
102.133.176.104	Average Latency [ms]	117.22	228.50
	Median Latency [ms]	118	201
	Ping session status: Successful	9	8
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	2	2
	Packet Loss<1%	18.18	20.00

UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	11	11
Success(Count)	11	9
Failure(Count)	0	2
YouTube Access Time (s)	3.24	1.87
YouTube Average Resolution (pixels)	1080.00	1080.00
YouTube Success Ratio [%]	100.00	81.82

THANKS