RantCell Pro v10.8 Features

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Version: v10.8

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Contents

Introduction:

The purpose of this document is to provide brief information about new features that will be available on RantCell Android version of Pro enterprise app: v7.2.29 software version.
RantCell iOS version of Pro enterprise app: v1.0 software version.
RantCell dashboard version: v10.8

RantCell v10.8 new features

Feature ID 1046: Neighbor cell measurement on 5G NR, 4G, 3G, 2G networks.

RantCell Pro can now measure neighbor cell information on 5GNR, 4G, 3G, 2G networks (dependent on Android device) when running active test such as FTP, ping, speed etc. or idle mode measurement. Users can view the Neighbor cell information along with the serving cell information on RantCell dashboard. Please note that feature requires "Capture neighbor cell data" flag enabled under settings as shown below.
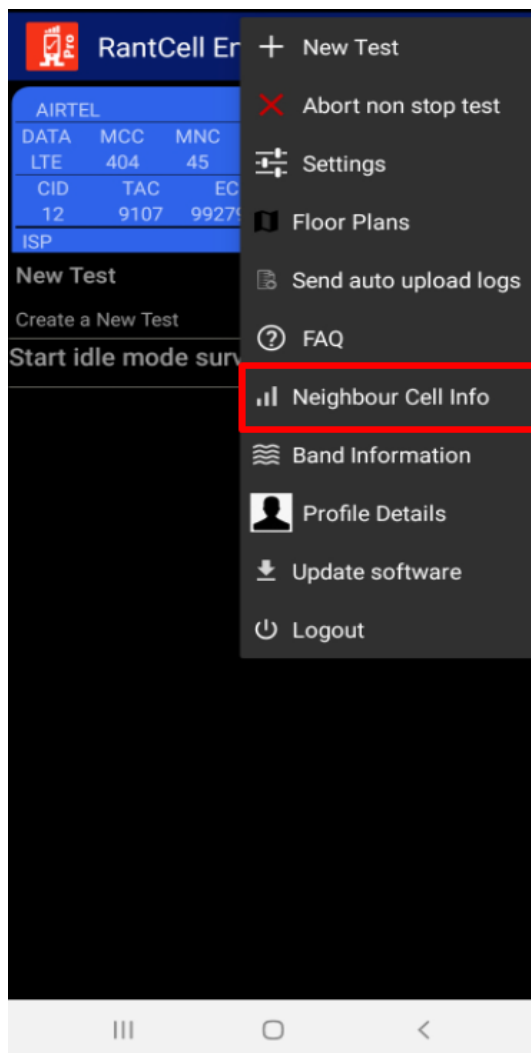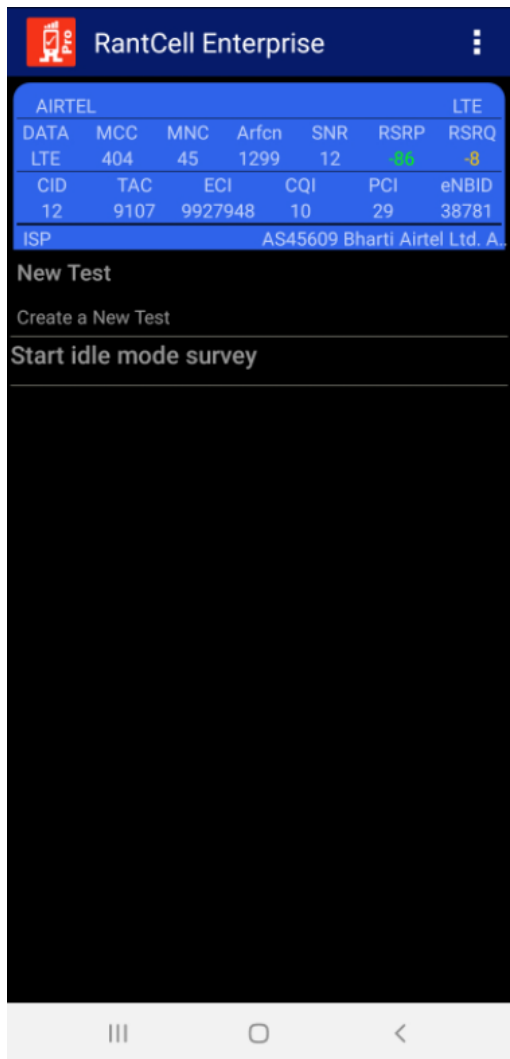
Neighbour Cell Info

Serving Cell : LTE AIRTEL   N : 4

Mcc :	404	Mnc:	45	Tac :	9107
PCI :	29	ECI :	9927948	Band :	NS
Arfcn :	1299	eNB :	38781	Lcid :	12
Rsrp :	-77	Rsrq :	-12	Sinr :	6
TimingAdvance :	16	Cqi :	10		

Neighbour Cell 1 : LTE

Mcc :	NS	Mnc:	NS	Tac :	0
PCI :	198	ECI :	0	Band :	NS
Arfcn :	1299	eNB :	0	Lcid :	0
Rsrp :	-84	Rsrq :	-16	Sinr :	NS
TimingAdvance :	0	Cqi :	NS		

Neighbour Cell 2 : LTE

Mcc :	NS	Mnc:	NS	Tac :	0
PCI :	493	ECI :	0	Band :	NS
Arfcn :	1299	eNB :	0	Lcid :	0
Rsrp :	-84	Rsrq :	-18	Sinr :	NS
TimingAdvance :	0	Cqi :	NS		

Neighbour Cell 3 : LTE

Mcc :	NS	Mnc:	NS	Tac :	0
PCI :	493	ECI :	0	Band :	NS
Arfcn :	39125	eNB :	0	Lcid :	0
Rsrp :	-96	Rsrq :	-15	Sinr :	NS
TimingAdvance :	0	Cqi :	NS		

Neighbour Cell 4 : LTE

Mcc :	NS	Mnc:	NS	Tac :	0
PCI :	198	ECI :	0	Band :	NS
Arfcn :	39125	eNB :	0	Lcid :	0
Rsrp :	-98	Rsrq :	-17	Sinr :	NS
TimingAdvance :	0	Cqi :	NS		

Settings

General Settings

Enable/Disable GPS logging
Enable GPS to ensure location information is captured while app performing testing.

Capture Neighbour cell data
will allow app to capture the neighbour cell information along with the Serving cell information. ☑

Enable share data
Enable or Disable network test log information to RantCell cloud. ☑

Allow remote test
Please note that this will allow app to accept and run test config sent from RantCell dashboard ☑

Allow Auto Upload
Please note that this will automatically upload failed campaigns to RantCell cloud. ☑

Enable Rooted feature
Captures additional RF parameters ex ARFCN, Ec/Io etc ☐

Launch Network Band Locking
Allows user to lock Network Band (supported devices only)

Neighbour cell information will be highlighted in when clicked on data point. Click on Neighbour cells count to get spider view of cell neighbour.
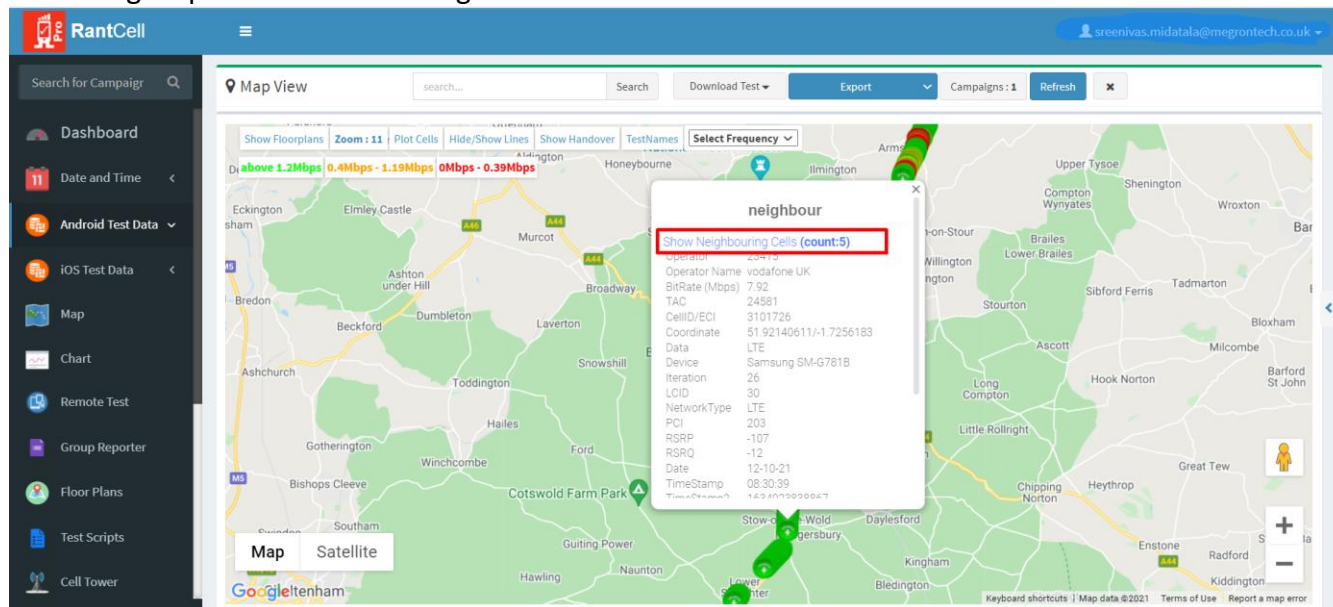
Spider view showing strongest signal neighbor to lowest signal in clockwise.
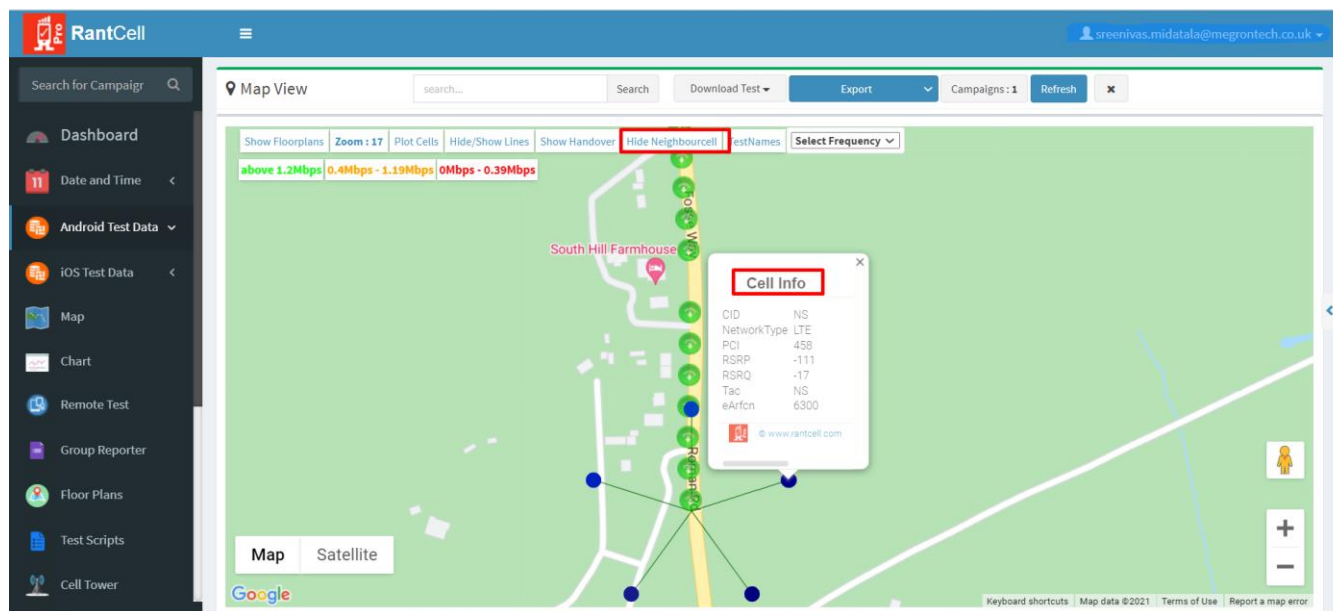
Neighbor information is also available when data is exported from RantCell dashboard or on App.

| NeighbourCell_1_NetworkType	NeighbourCell_1_Cid	NeighbourCell_1_Pci	NeighbourCell_1_Rsrp	NeighbourCell_1_Rsrq	NeighbourCell_1_Tac	NeighbourCell_1_eArfcn	NeighbourCell_1_Lac	NeighbourCell_1_bcchArfc	NeighbourCell_1_uArfcr	NeighbourCell_1_Rt	NeighbourCell_1_Tir	NeighbourCell_1_F	NeighbourCell_1_N Neigh
Lte	NS	333	-104	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	333	-101	-19	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	333	-101	-19	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-101	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-101	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-101	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-97	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-91	-15	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-91	-15	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-91	-13	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-91	-13	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-76	-19	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-76	-19	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-76	-19	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-76	-19	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	59	-80	-12	NS	323	NS	NS	NS	NS	NS	NS	NS
Lte	NS	59	-80	-12	NS	323	NS	NS	NS	NS	NS	NS	NS
Lte	NS	59	-80	-12	NS	323	NS	NS	NS	NS	NS	NS	NS
Lte	NS	59	-80	-12	NS	323	NS	NS	NS	NS	NS	NS	NS
Lte	NS	36	-65	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	38	-74	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	38	-94	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	38	-94	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	38	-94	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	38	-94	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	38	-94	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-97	-16	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-97	-16	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-99	-17	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-99	-17	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	425	-85	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-96	-17	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-97	-20	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-99	-18	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-99	-18	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-98	-19	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-98	-19	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-98	-19	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-98	-17	NS	6300	NS	NS	NS	NS	NS	NS	NS
Lte	NS	362	-98	-17	NS	6300	NS	NS	NS	NS	NS	NS	NS

DownloadTest_Binary_Combined_20

Feature ID 1047: RantCell Pro app now has voice alerts.

Voice alert has been introduced in app, users can notice the voice alerts for speed test, http test, stream test and call test failed scenarios such as call Drop, Call setup failure. Please note that this feature needs to be enabled from settings on app (Voice Alerts must be selected). This feature is specifically useful when performing drive testing or walk testing.
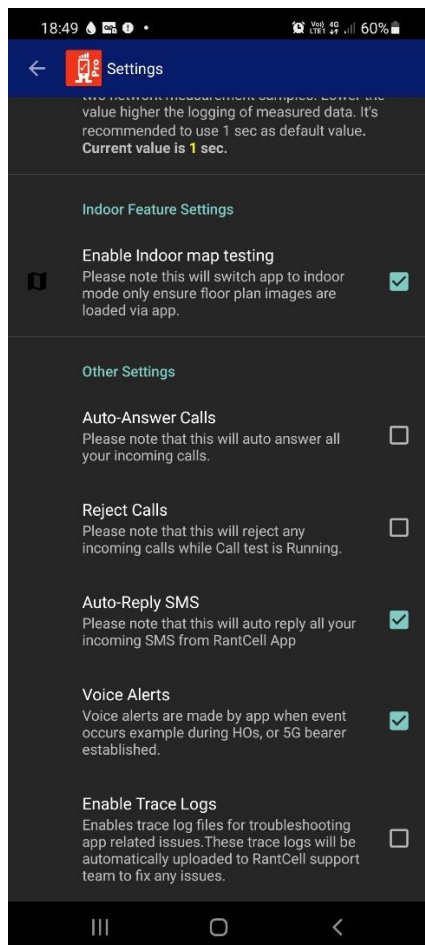
Feature ID 1048: Handover success and failure computation

Handover feature as been introduced in app and in dashboard, KPIs such as handover success and failure alerts whenever cellular transmission (voice or data) is transferred from one base station (cell site) to another without losing connectivity to the cellular transmission. Users can view handover points in RantCell dashboard map view, table view and in handover Export file.

Note: HO KPIs are shown only for speed test, http test and stream tests only. KPIs definition as below

HO success when there is no loss of user data throughput i.e., uplink or downlink throughput does not fall to 0mbps during cell change or RAN technology change occurs.

HO failure when there is a loss of data when uplink or downlink throughput does fall to 0mbps for 1 sec or more during cell change or RAN technology change occurs.
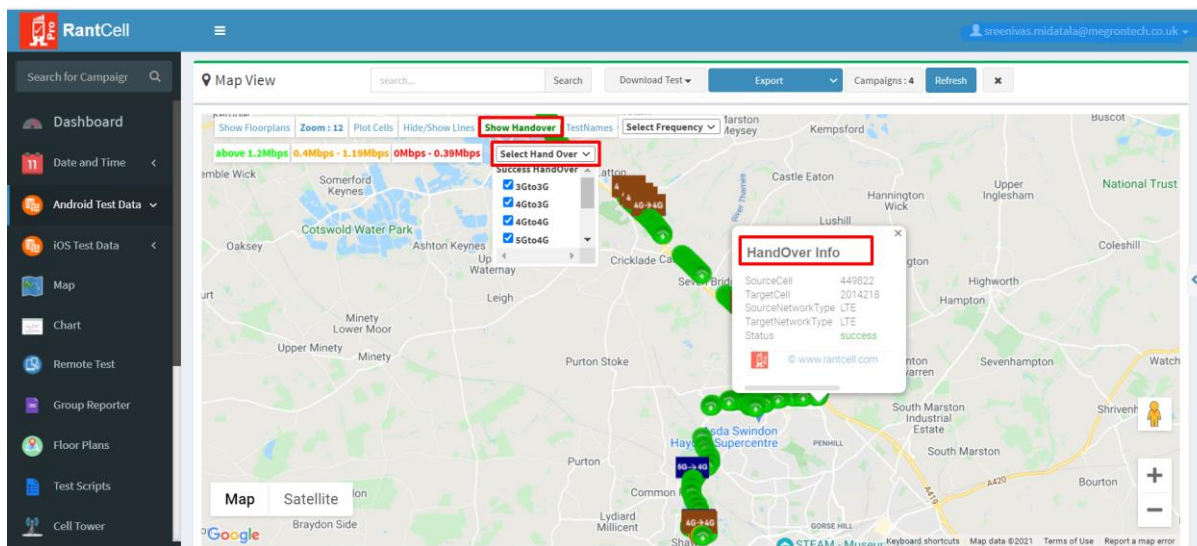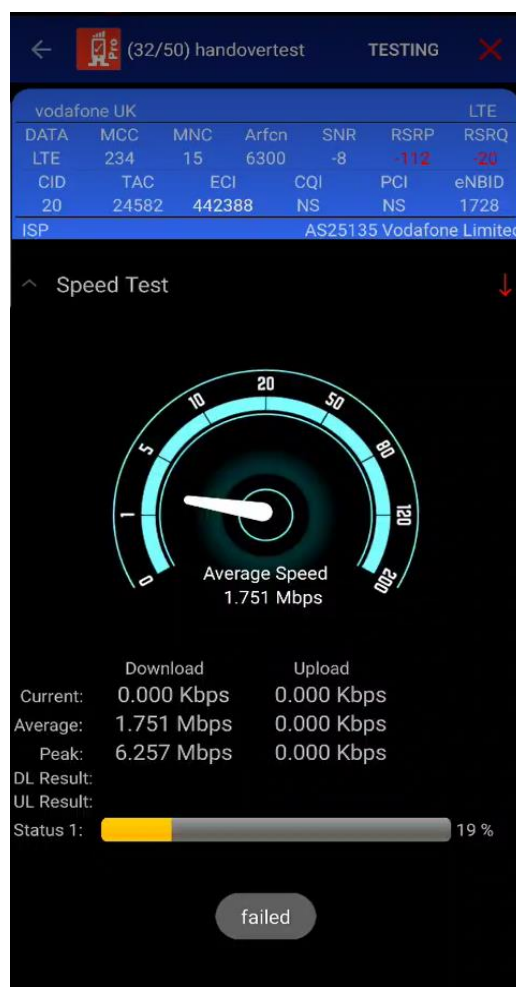
HO KPIs

HandOver KPIS (23415)

HandOver	Attempted	FailedHOs	HO successrate
5G to 5G	0	0	0
5G to 4G	0	0	0
4G to 5G	0	0	0
4G to 4G	143	0	100.00%
4G to 3G	0	0	0
4G to 2G	0	0	0
3G to 3G	2	0	100.00%
3G to 2G	0	0	0

HandOver KPIS (23415)

HandOver	Attempted	FailedHOs	HO successrate
5G to 5G	2	0	100.00%
5G to 4G	1	0	100.00%
4G to 5G	0	0	0
4G to 4G	74	0	100.00%
4G to 3G	3	1	66.67%
4G to 2G	0	0	0
3G to 3G	10	1	90.00%
3G to 2G	0	0	0
2G to 3G	0	0	0

	TimeStamp	CampaignId	Latitude	Longitude	ID	PreviousCell	CurrentCell	PreviousNetwork	CurrentNetwork	TestType	Status
2	03-07-2021 10.48	31-78-83369551762333-128109	51.56862081	-1.83162531	1	945176	945172	5G	LTE	Ftp_Upload_Test	success
3	03-07-2021 10.48	31-78-83369551762333-128109	51.56727576	-1.82987128	2	945172	2663700	5G	5G	Ftp_Download_Test	success
4	03-07-2021 10.48	31-78-83369551762333-128109	51.56709503	-1.82988523	3	2663700	2673182	5G	5G	Ftp_Download_Test	success
5	03-07-2021 10.48	31-78-83369551762333-128109	51.56685999	-1.82983469	4	2673182	479262	LTE	LTE	Ftp_Download_Test	success
6	03-07-2021 10.48	31-78-83369551762333-128109	51.56676743	-1.82976617	5	479262	2671190	LTE	LTE	Ftp_Download_Test	success
7	03-07-2021 10.48	31-78-83369551762333-128109	51.56651684	-1.82945161	6	2671390	590356	LTE	LTE	Ftp_Download_Test	success
8	03-07-2021 10.48	31-78-83369551762333-128109	51.56638782	-1.8291954	7	590356	3048212	LTE	LTE	Ftp_Download_Test	success
9	03-07-2021 10.49	31-78-83369551762333-128109	51.56641946	-1.82620484	8	3048212	762910	LTE	5G	Ftp_Upload_Test	success
10	03-07-2021 10.49	31-78-83369551762333-128109	51.56752056	-1.82656	9	762910	449812	LTE	LTE	Ftp_Upload_Test	success
11	03-07-2021 10.49	31-78-83369551762333-128109	51.56819806	-1.82718629	10	449812	3048212	LTE	LTE	Ftp_Upload_Test	success
12	03-07-2021 10.49	31-78-83369551762333-128109	51.56961324	-1.82831532	11	3048212	945162	LTE	LTE	Ftp_Upload_Test	success
13	03-07-2021 10.50	31-78-83369551762333-128109	51.57434467	-1.83105933	12	945162	945182	LTE	LTE	Ftp_Upload_Test	success
14	03-07-2021 10.51	31-78-83369551762333-128109	51.58001331	-1.83237997	13	945182	2666772	LTE	LTE	Ftp_Upload_Test	success
15	03-07-2021 10.53	31-78-83369551762333-128109	51.58664174	-1.82594264	14	2666772	2666782	LTE	LTE	Ftp_Upload_Test	success
16	03-07-2021 10.54	31-78-83369551762333-128109	51.59325783	-1.82893828	15	2666782	579594	LTE	LTE	Ftp_Upload_Test	success
17	03-07-2021 10.54	31-78-83369551762333-128109	51.59773121	-1.82712127	16	579594	2014228	LTE	LTE	Ftp_Upload_Test	success
18	03-07-2021 10.54	31-78-83369551762333-128109	51.59922989	-1.82395946	17	2014228	579594	LTE	LTE	Ftp_Upload_Test	success
19	03-07-2021 10.56	31-78-83369551762333-128109	51.59990722	-1.81966855	18	579594	2659870	LTE	LTE	Ftp_Upload_Test	success
20	03-07-2021 11.07	31-78-83369551762333-128109	51.59919196	-1.80889399	19	2659860	2659870	LTE	LTE	Ftp_Upload_Test	success
21	13-10-2021 7.54	31-78-83369551762333-128109	51.63892506	-1.85774545	1	1021194	1043742	LTE	LTE	Ftp_Download_Test	success
22	13-10-2021 7.57	31-78-83369551762333-128109	51.64453661	-1.85490691	2	1043742	1021194	LTE	LTE	Ftp_Upload_Test	success
23	13-10-2021 7.57	31-78-83369551762333-128109	51.64506832	-1.8550409	3	1021194	1043742	LTE	LTE	Ftp_Upload_Test	success
24	13-10-2021 7.57	31-78-83369551762333-128109	51.64579723	-1.85529517	4	1043742	1021194	LTE	LTE	Ftp_Upload_Test	success
25	13-10-2021 7.57	31-78-83369551762333-128109	51.64798812	-1.85665394	5	1021194	1021214	LTE	LTE	Ftp_Upload_Test	success
26	13-10-2021 7.59	31-78-83369551762333-128109	51.66322752	-1.88440016	6	1021214	465428	LTE	LTE	Ftp_Download_Test	success
27	13-10-2021 8.00	31-78-83369551762333-128109	51.67716473	-1.89606732	7	465428	465438	LTE	LTE	Ftp_Download_Test	success
28	13-10-2021 8.01	31-78-83369551762333-128109	51.69103696	-1.91560689	8	465438	1058826	LTE	LTE	Ftp_Download_Test	success
29	13-10-2021 8.01	31-78-83369551762333-128109	51.69141071	-1.91646771	9	1058826	1466644	LTE	LTE	Ftp_Download_Test	success
30	13-10-2021 8.01	31-78-83369551762333-128109	51.69187626	-1.91756358	10	1466644	1021214	LTE	LTE	Ftp_Download_Test	success
31	13-10-2021 8.01	31-78-83369551762333-128109	51.69205745	-1.91796376	11	1021214	1466644	LTE	LTE	Ftp_Download_Test	success
32	13-10-2021 8.01	31-78-83369551762333-128109	51.69213517	-1.91813865	12	1466644	1058826	LTE	LTE	Ftp_Download_Test	success
33	13-10-2021 8.02	31-78-83369551762333-128109	51.69248525	-1.91858478	13	1058826	465438	LTE	LTE	Ftp_Download_Test	success

Hand Over2021-10-29 13_01_44

Feature ID 1049: Added function to capture Altitude and speed

Altitude and speed parameter as been introduced in app, Users can view the Altitude and speed parameter details in app combined binary export files.

|	Timestamp	Iteration	Server	FTP UL/DL	Throughput	PSC	ECNO	Latitude	Longitude	Altitude	Speed(m/s)	networkO	networkO	networkTy	networkDi	Lac/Tac	lteRsrp	lteRsrq	ltePci	lteSnr	lteCqi	nrCsiRsrp	nrCsiRsrq	nrCsiSinr	nrSsRsrp	nrSsRsrq	nrSsSinr
2	2021-10-12	1	52.74.65.5	DL	0	-	-	15.8627	74.58323	693	2.789999962	40445	AIRTEL	LTE	LTE	9107	-103	-9	198	3	8	NS	NS	NS	NS	NS	NS
3	2021-10-12	1	52.74.65.5	DL	4436.109	-	-	15.8627	74.58323	693	2.789999962	40445	AIRTEL	LTE	LTE	9107	-103	-9	198	3	8	NS	NS	NS	NS	NS	NS
4	2021-10-12	1	52.74.65.5	DL	7987.945	-	-	15.8627	74.58323	693	2.789999962	40445	AIRTEL	LTE	LTE	9107	-103	-9	198	3	8	NS	NS	NS	NS	NS	NS
5	2021-10-12	1	52.74.65.5	DL	6907.641	-	-	15.8627	74.58323	693	2.789999962	40445	AIRTEL	LTE	LTE	9107	-103	-9	198	3	8	NS	NS	NS	NS	NS	NS
6	2021-10-12	1	52.74.65.5	DL	8339.617	-	-	15.8627	74.58323	693	2.789999962	40445	AIRTEL	LTE	LTE	9107	-103	-9	198	3	8	NS	NS	NS	NS	NS	NS
7	2021-10-12	1	52.74.65.5	DL	10561.29	-	-	15.8627	74.58323	693	2.789999962	40445	AIRTEL	LTE	LTE	9107	-103	-9	198	3	8	NS	NS	NS	NS	NS	NS
8	2021-10-12	1	52.74.65.5	DL	10077.42	-	-	15.8627	74.58323	693	2.789999962	40445	AIRTEL	LTE	LTE	9107	-103	-9	198	3	8	NS	NS	NS	NS	NS	NS
9	2021-10-12	1	52.74.65.5	DL	12248.63	-	-	15.8627	74.58323	654	0.469999999	40445	AIRTEL	LTE	LTE	9107	-103	-9	198	3	8	NS	NS	NS	NS	NS	NS
10	2021-10-12	1	52.74.65.5	DL	12664.7	-	-	15.86264	74.5832	659	0.299999982	40445	AIRTEL	LTE	LTE	9107	-103	-9	198	3	8	NS	NS	NS	NS	NS	NS
11	2021-10-12	1	52.74.65.5	DL	10378.75	-	-	15.86263	74.58324	663	0.02	40445	AIRTEL	LTE	LTE	9107	-105	-12	198	10	11	NS	NS	NS	NS	NS	NS
12	2021-10-12	1	52.74.65.5	DL	13142.84	-	-	15.86263	74.58327	664	0.25999999	40445	AIRTEL	LTE	LTE	9107	-105	-12	198	10	11	NS	NS	NS	NS	NS	NS
13	2021-10-12	1	52.74.65.5	DL	12231.71	-	-	15.86263	74.58327	663	0	40445	AIRTEL	LTE	LTE	9107	-105	-12	198	10	11	NS	NS	NS	NS	NS	NS
14	2021-10-12	1	52.74.65.5	DL	13489.67	-	-	15.86263	74.58326	661	0.959999979	40445	AIRTEL	LTE	LTE	9107	-105	-12	198	10	11	NS	NS	NS	NS	NS	NS
15	2021-10-12	1	52.74.65.5	DL	3045.406	-	-	15.86263	74.58325	662	0.379999995	40445	AIRTEL	LTE	LTE	9107	-107	-12	198	10	11	NS	NS	NS	NS	NS	NS
16	2021-10-12	1	52.74.65.5	DL	586.602	-	-	15.86264	74.58321	655	0.829999983	40445	AIRTEL	LTE	LTE	9107	-104	-12	198	9	13	NS	NS	NS	NS	NS	NS
17	2021-10-12	1	52.74.65.5	DL	213.953	-	-	15.86263	74.58319	653	0.569999993	40445	AIRTEL	LTE	LTE	9107	-104	-12	198	9	13	NS	NS	NS	NS	NS	NS
18	2021-10-12	2	52.74.65.5	DL	0	-	-	15.86248	74.58313	686	0.649999976	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
19	2021-10-12	2	52.74.65.5	DL	14912.87	-	-	15.86248	74.58314	686	0.610000014	40445	AIRTEL	LTE	LTE+	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
20	2021-10-12	2	52.74.65.5	DL	9915.766	-	-	15.86248	74.58314	686	0.610000014	40445	AIRTEL	LTE	LTE+	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
21	2021-10-12	2	52.74.65.5	DL	25120.4	-	-	15.86248	74.58314	686	0	40445	AIRTEL	LTE	LTE+	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
22	2021-10-12	2	52.74.65.5	DL	4637.43	-	-	15.86248	74.58314	686	0	40445	AIRTEL	LTE	LTE+	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
23	2021-10-12	2	52.74.65.5	DL	9769.977	-	-	15.86248	74.58314	686	0	40445	AIRTEL	LTE	LTE+	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
24	2021-10-12	2	52.74.65.5	DL	3231.758	-	-	15.86248	74.58311	687	0.209999993	40445	AIRTEL	LTE	LTE+	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
25	2021-10-12	2	52.74.65.5	DL	5281.664	-	-	15.86249	74.58309	687	0.219999999	40445	AIRTEL	LTE	LTE+	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
26	2021-10-12	2	52.74.65.5	DL	282.641	-	-	15.86249	74.58309	687	0	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
27	2021-10-12	2	52.74.65.5	DL	455.508	-	-	15.86249	74.58309	687	0	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
28	2021-10-12	2	52.74.65.5	DL	379.75	-	-	15.86249	74.58309	687	0	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
29	2021-10-12	2	52.74.65.5	DL	58.695	-	-	15.86251	74.58308	686	0.479999989	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
30	2021-10-12	2	52.74.65.5	DL	965.289	-	-	15.86254	74.58304	684	0.589999974	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
31	2021-10-12	2	52.74.65.5	DL	123.586	-	-	15.86255	74.58304	681	0.299999982	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
32	2021-10-12	2	52.74.65.5	DL	97.586	-	-	15.86256	74.58304	681	0.02	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
33	2021-10-12	2	52.74.65.5	DL	48.516	-	-	15.86256	74.58304	681	0	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
34	2021-10-12	2	52.74.65.5	DL	681.055	-	-	15.86256	74.58304	681	0	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
35	2021-10-12	2	52.74.65.5	DL	62.992	-	-	15.86256	74.58304	681	0	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
36	2021-10-12	2	52.74.65.5	DL	193.008	-	-	15.86256	74.58304	681	0	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
37	2021-10-12	2	52.74.65.5	DL	163.758	-	-	15.86257	74.58305	681	0.140000001	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS
38	2021-10-12	2	52.74.65.5	DL	2222.094	-	-	15.86257	74.58305	681	0.209999993	40445	AIRTEL	LTE	LTE	9107	-104	-11	29	-3	6	NS	NS	NS	NS	NS	NS

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Feature ID 1050: Better organization of indoor floor plans by folder structure

New folder wise floorplan saving mechanism as been introduced in app, Users can create a folder and add the floorplans with floor_name, floor_id. User can save and view the floorplan details. Example multiple client project named or building name folders can be created and floor plans respective to project or building can be saved under it.
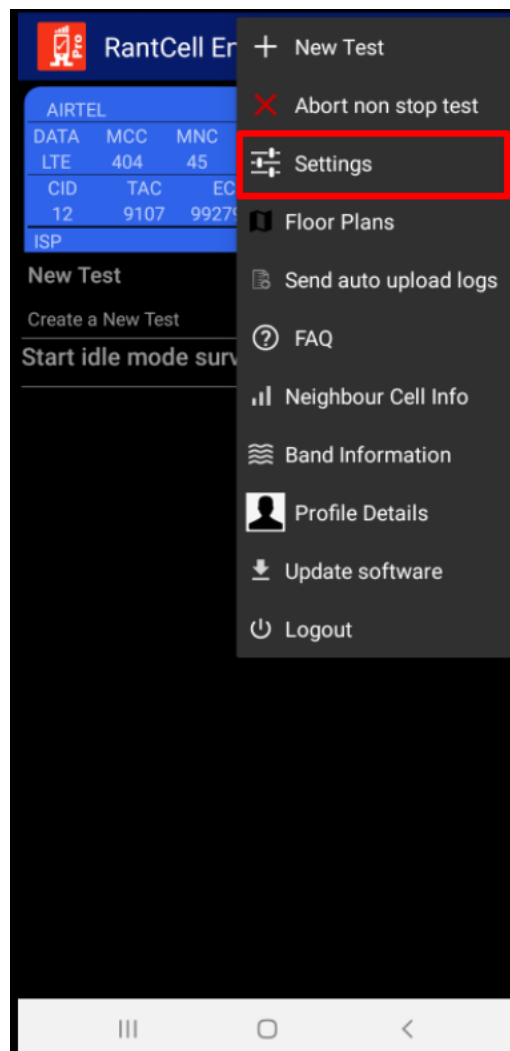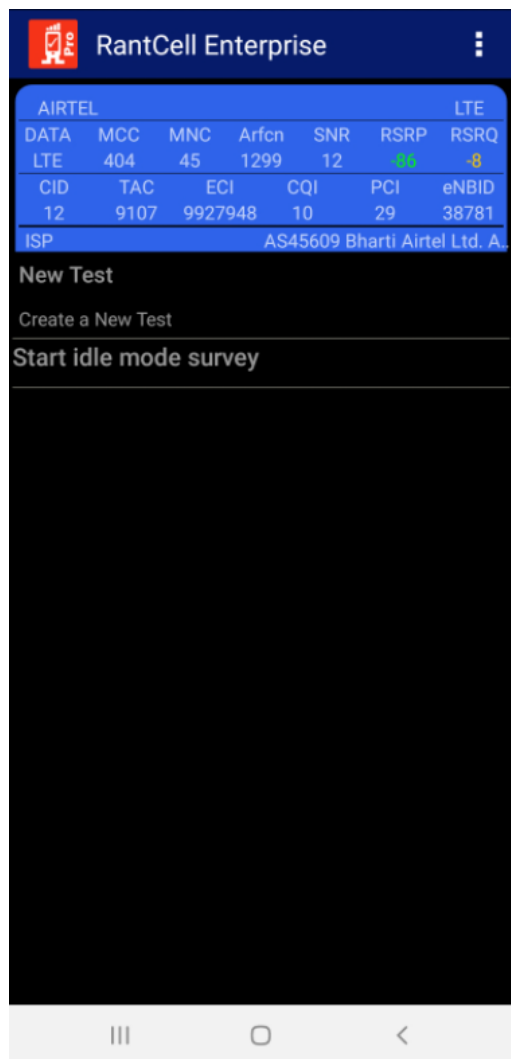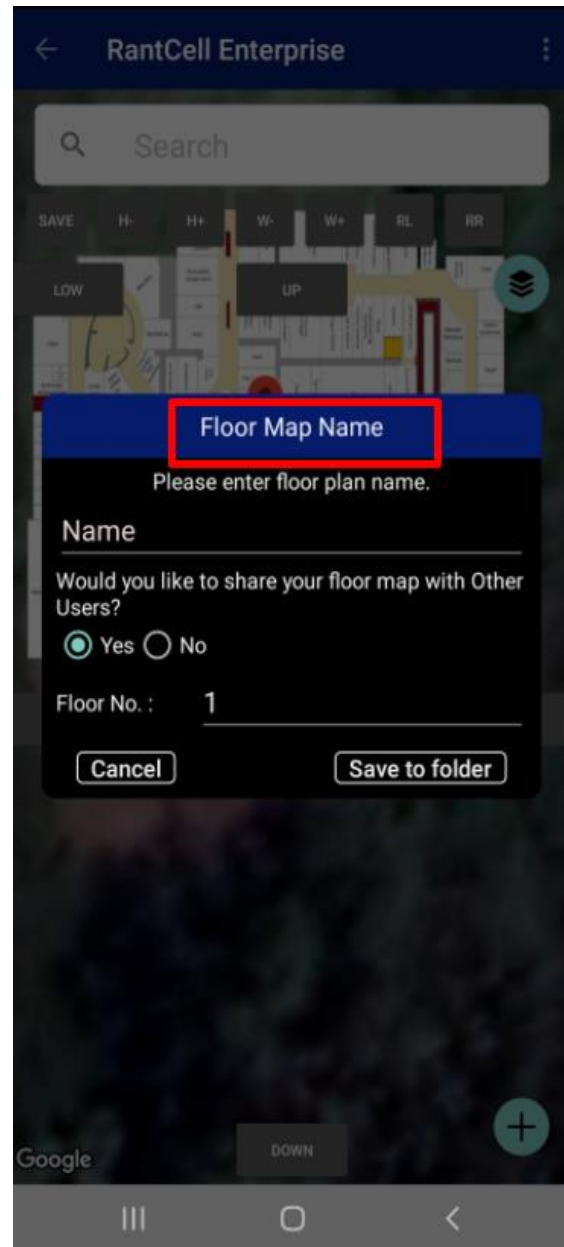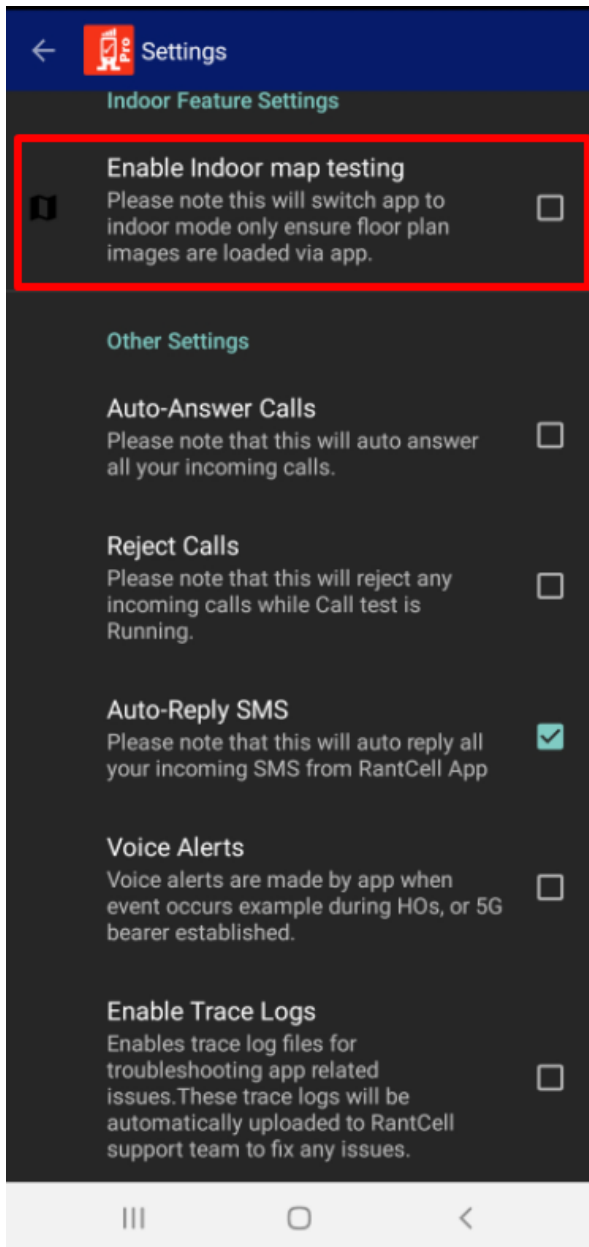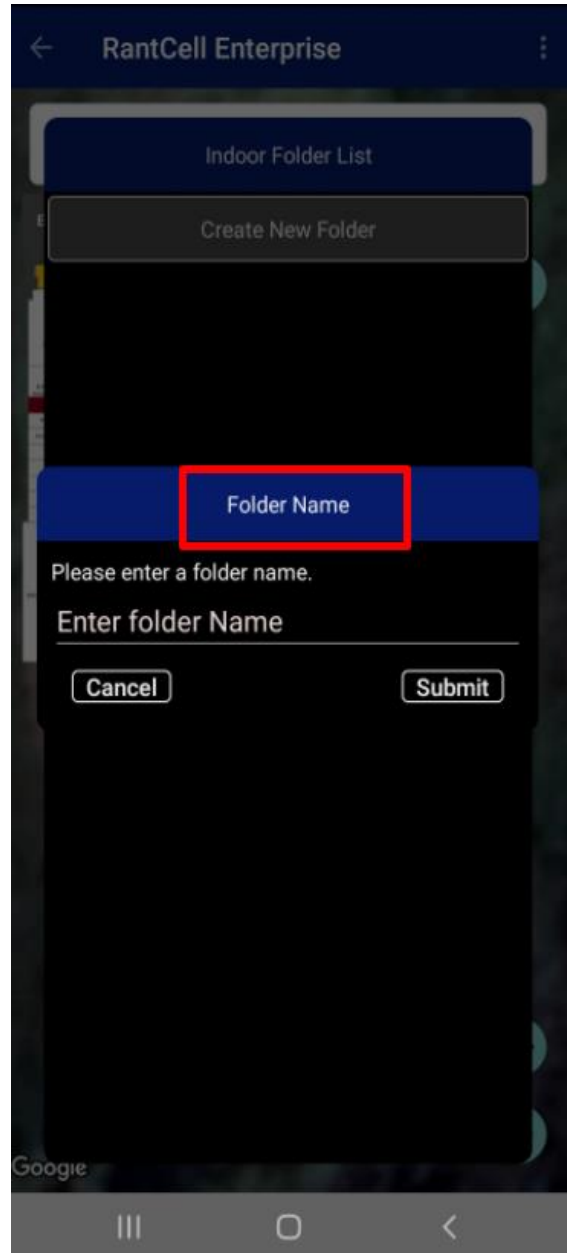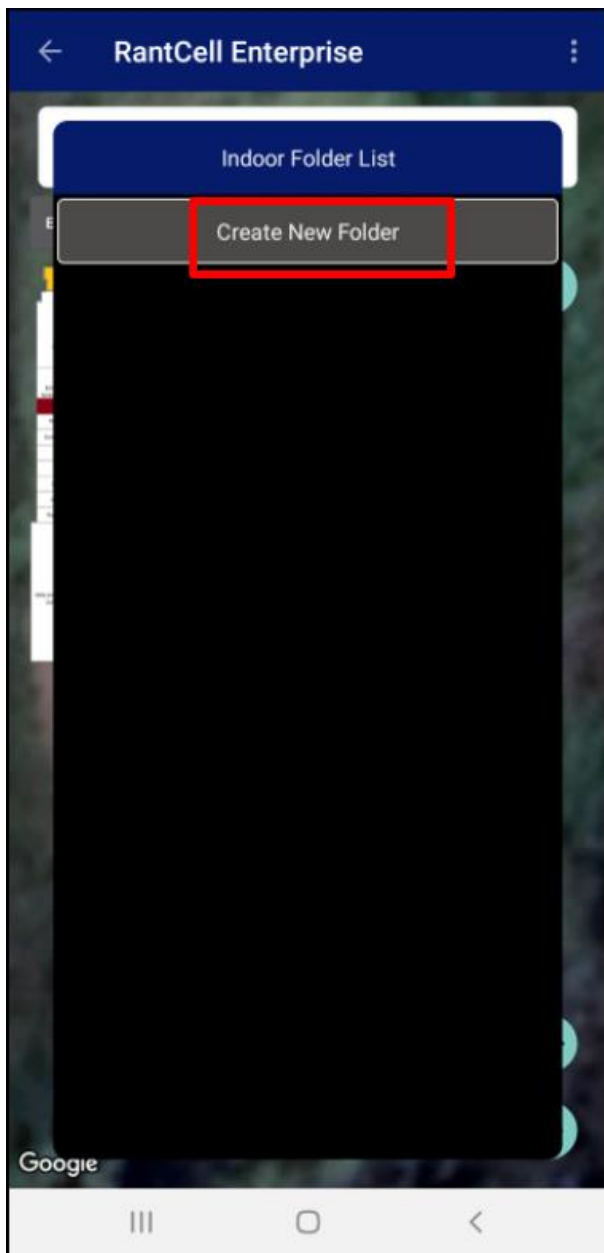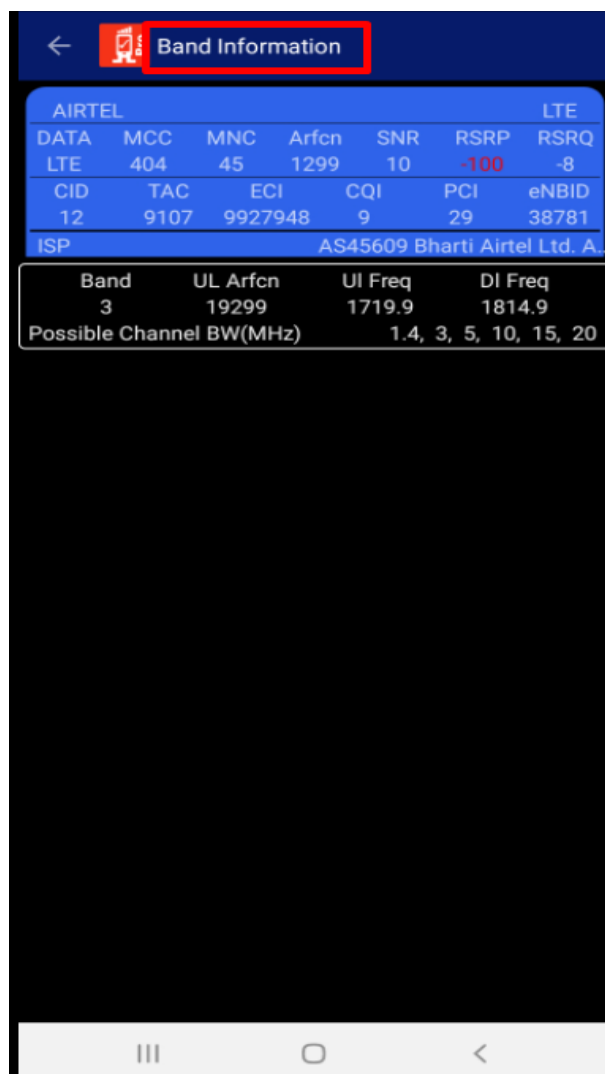
Feature ID 1051: Band Information display UI

Band Information UI been introduced in this latest version of the app, Users can view the band information such as Band, UL Freq, DL Freq, UL Arfcn and Channel BW only for LTE network. UI can be accessed from setting menu, however this data is not stored in app or in RantCell cloud.

Feature ID 1052: Day wise test campaigns scheduling

Day wise test campaigns scheduling has been introduced under Remote test feature in Dashboard, Users can schedule the Test campaigns based on the day of the week and time on a single device or a group of devices remotely. Example: On Monday run 30 voice call tests at 8am, at 12 pm run 20 upload download tests, at 6pm run 10 video stream tests. This can be repeated to other days of the week. Please refer to screenshot shared below.

This feature provides higher flexibility in testing when compared to continuous test on RAN network in static testing scenario such as monitoring remotely a important sites or in lab network load testing RAN.

Beacon on remote test group indicates that day-based test is active.

NOTE: There must be minimum 90 minutes gap between test campaigns same on same day schedule.

More than 5 scheduled test campaigns is not supported for same day.
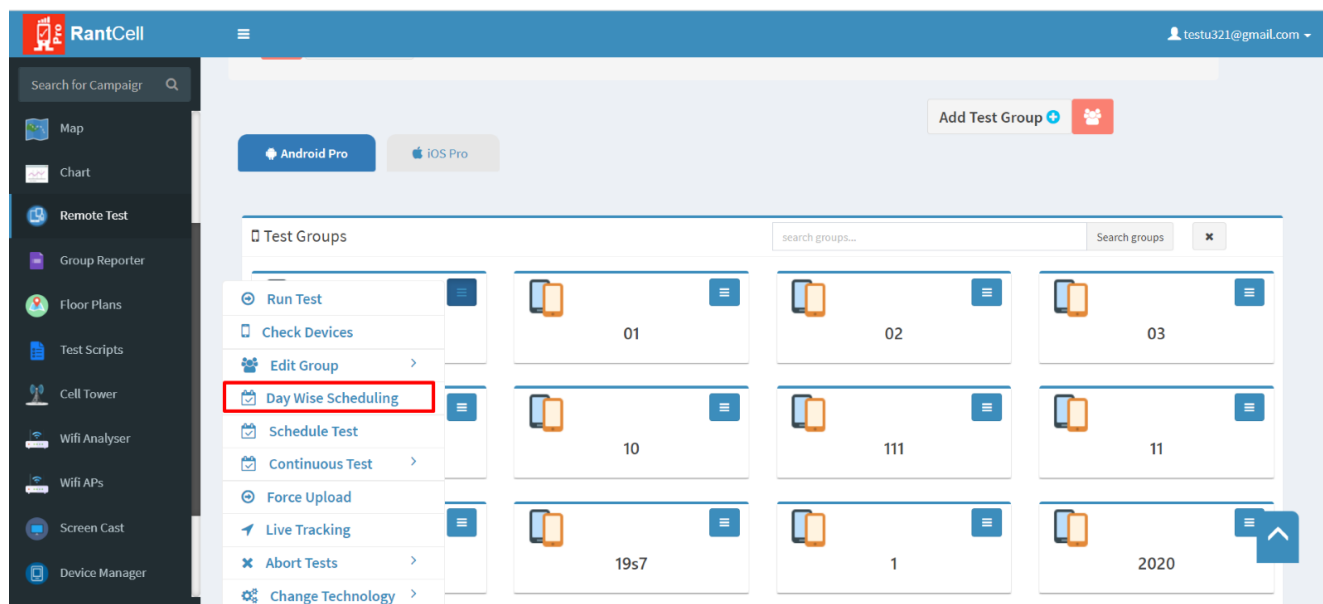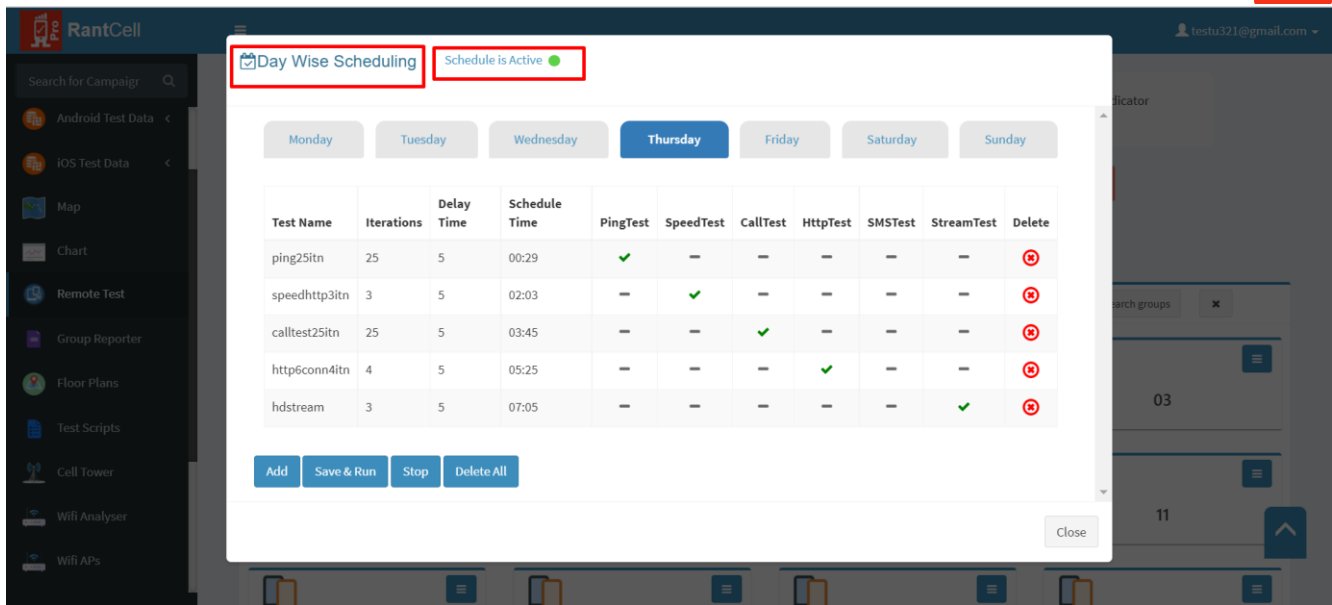
Feature ID 1053: RantCell dashboard supports iOS RantCell Pro app.

Android Test Data and IOS devices tree added in Dashboard, Users can view the Android test results or iOS related data separately as shown below.
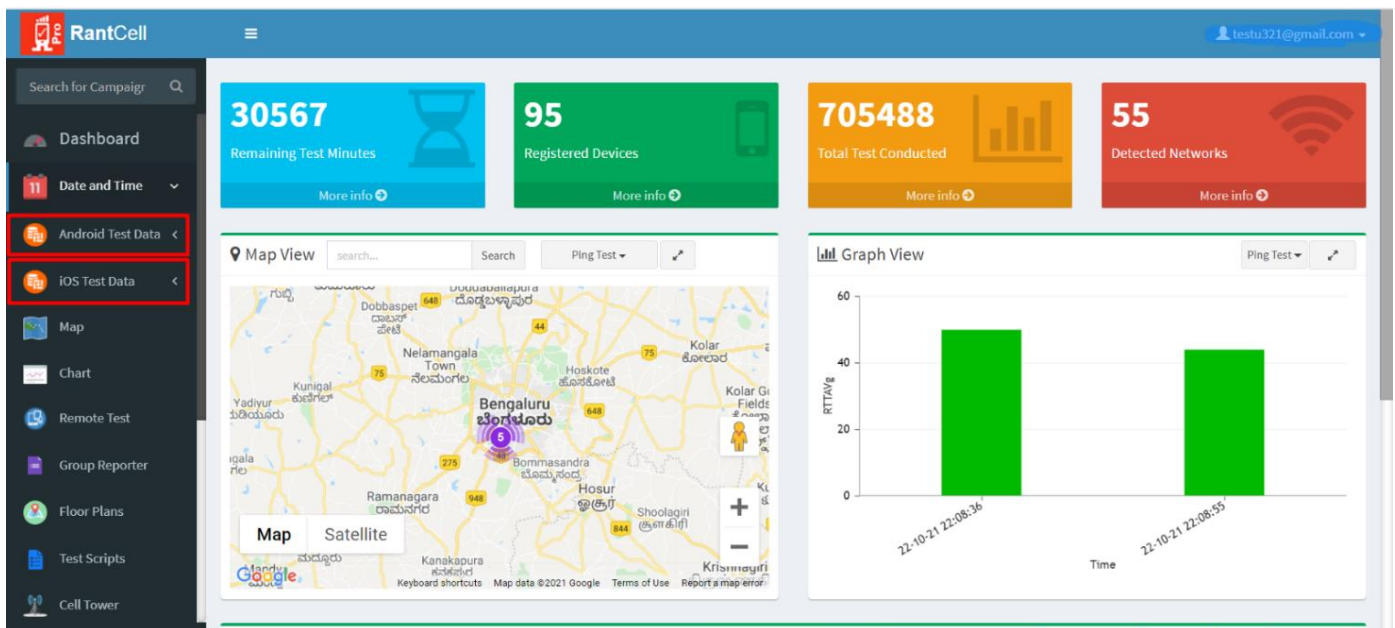
Feature ID 1054: Added an option to select sampling interval in settings

This parameter defines intervals lapsed between two network measurement samples. Lower the value higher the logging of measured data. It's recommended to use 1 sec as default value.
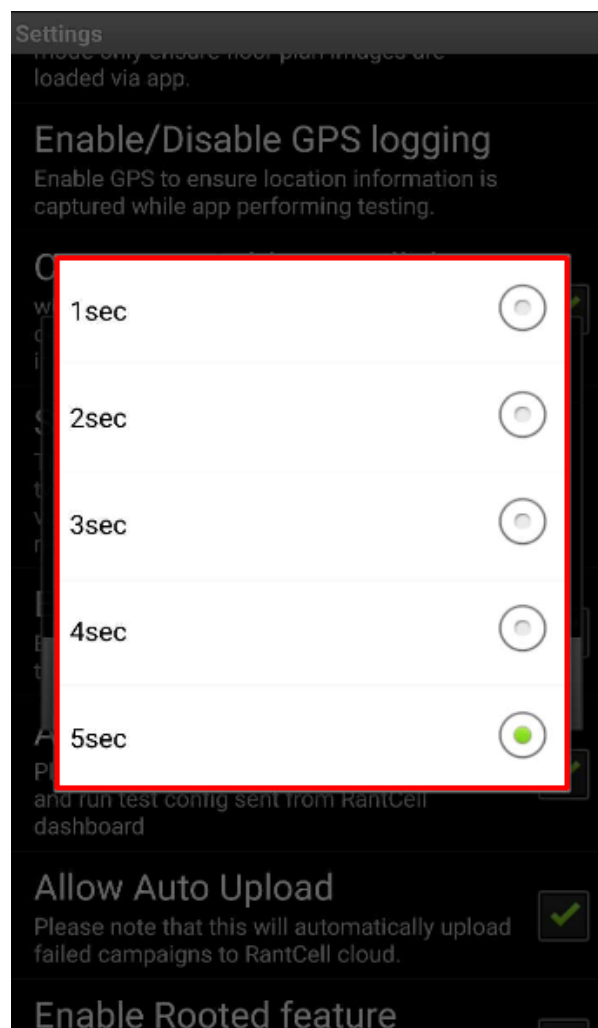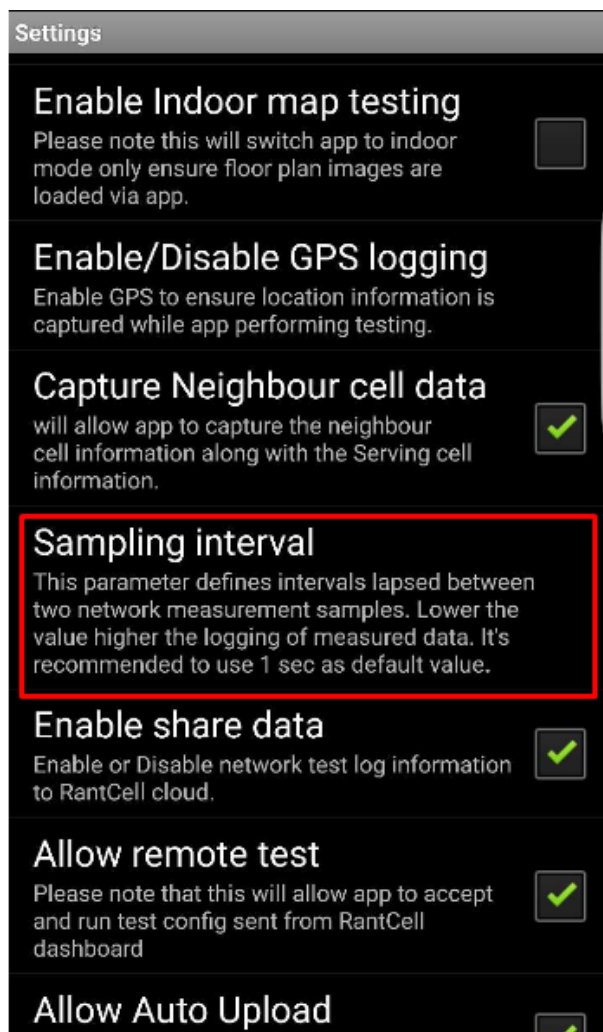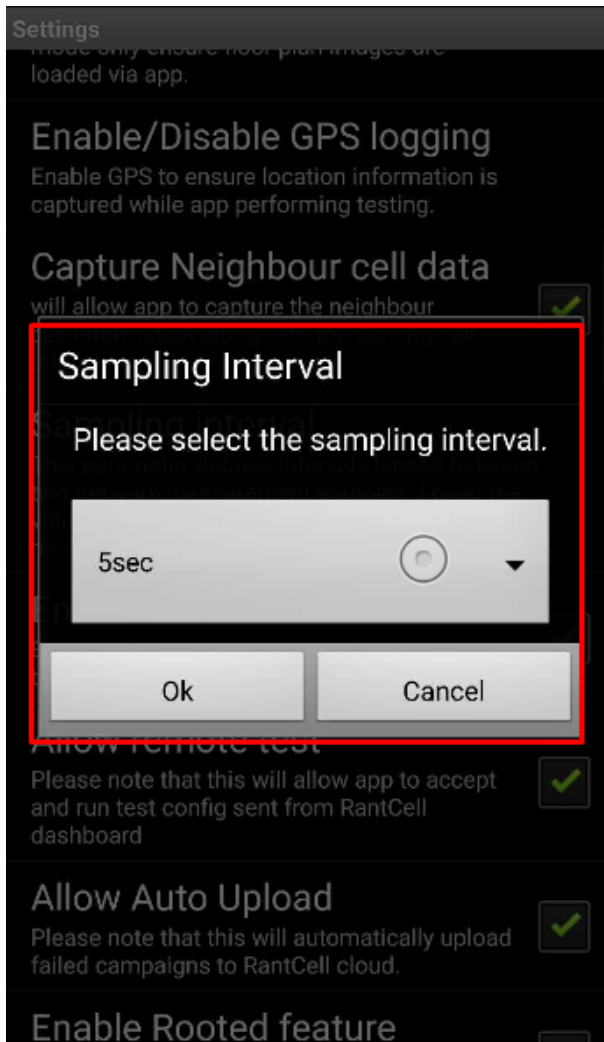
Feature ID 1055: iOS RantCell Pro app for iPad and iPhone

https://apps.apple.com/az/app/rantcell-pro/id1577906763

iOS RantCell pro app has now been released which is also available in Apple store which supports data only tests such as ping and FTP based tests on both cellular & Wi-Fi networks which collects the parameters such as DATA, NETWORK TYPE, MNC, MCC, SIGNAL STRENGTH (RSSI, RSCP, RSRP, NR ssRSRP, NR csiRSRP & Wi-Fi RSSI), OPERATOR NAME, GPS. Please note that user name and password will be required to download the app.

Please note that its not possible to measure signals levels directly from iOS APIs hence following computation is being made,

Green (-65dbm) when all 4 signal bars highlighted on iOS device and score is 5 out of 5.

Green (-80dbm) when all 4 signal bars highlighted on iOS device and score is 4 out of 5.

Amber(-90dbm) when 2 signal bars highlighted on iOS device and score is 3 out of 5.

Red (-105dbm) when 2 signal bars highlighted on iOS device and score is 2 out of 5.

Grey (-113dbm) when 1 signal bars highlighted on iOS device and score is 1 out of 5.

Grey (-120dbm) when no signal bars highlighted on iOS device and score is 0 out of 5.
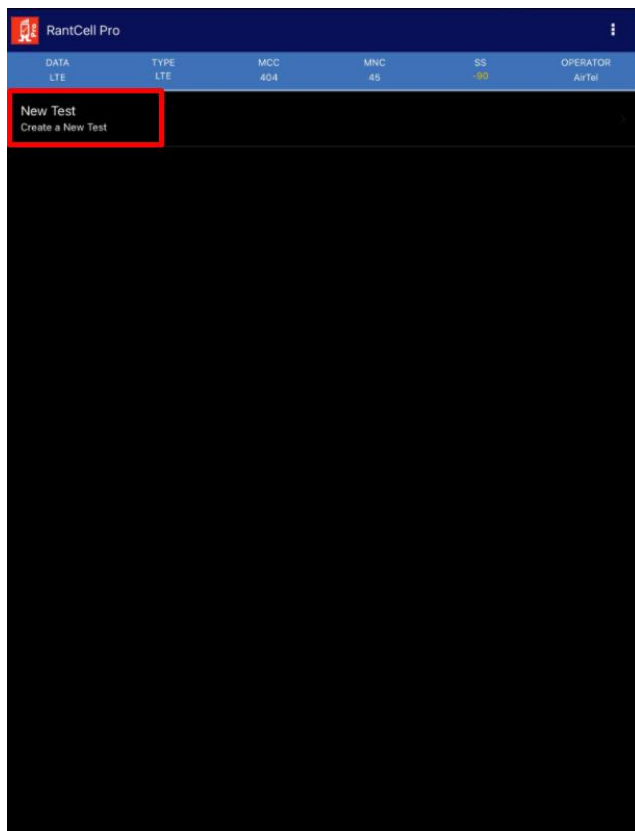
Feature ID 1056: Added ping test in iOS RantCell Pro app

Ping Test measures latency in ms (millisecond) for a packet of data on 2G, 3G, 4G, 5G and Wi-Fi Networks.

Latency measurement RTT max, RTT min, RTT avg (Ping size variable), Ping success rate, % Of dropped packets based on ping.

Feature ID 1057: FTP test in iOS RantCell Pro app
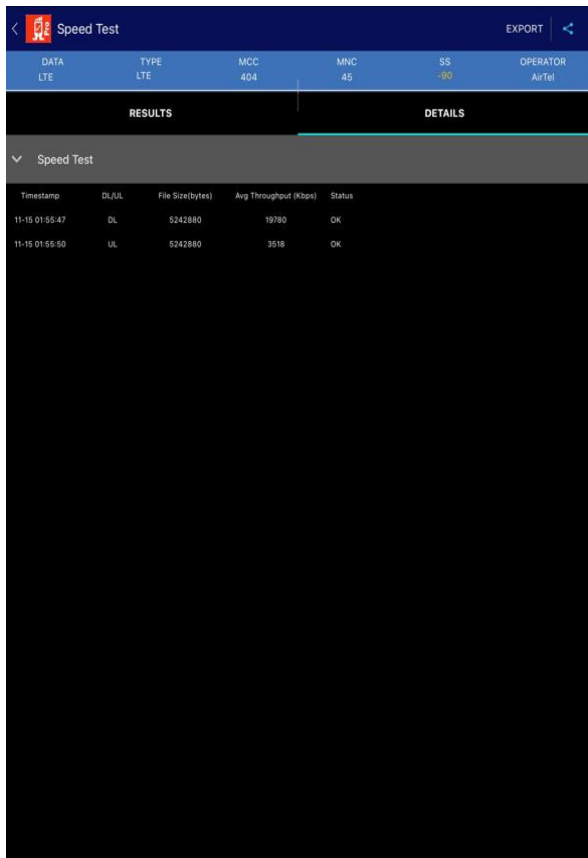
Speed Test measures network upload speed and download speed in mbps (Megabits Per Second)

FTP download speeds with session time and file size indicator, percentage of RAN technology type used (2G,3G,4G, 5G & Wi-Fi), signal level capture, FTP download average and Peak throughputs, FTP upload speeds with session time and file size indicator percentage of RAN technology type used (2G,3G,4G, 5G & Wi-Fi), signal level capture, FTP upload average and peak throughputs, Failure cases for FTP. User needs to select FTP server closest to your geolocation manually.

Feature ID 1058: Remote test capabilities in Dashboard for iOS.

Remote test for iOS pro has been introduced under Remote test feature in Dashboard. Users can assign the Test configurations remotely through Dashboard. Please refer to screenshot shared below. Please note that tests do not run automatically on iOS devices like in Android , user needs to tap on iOS once the notification is received on iOS device as shown below.
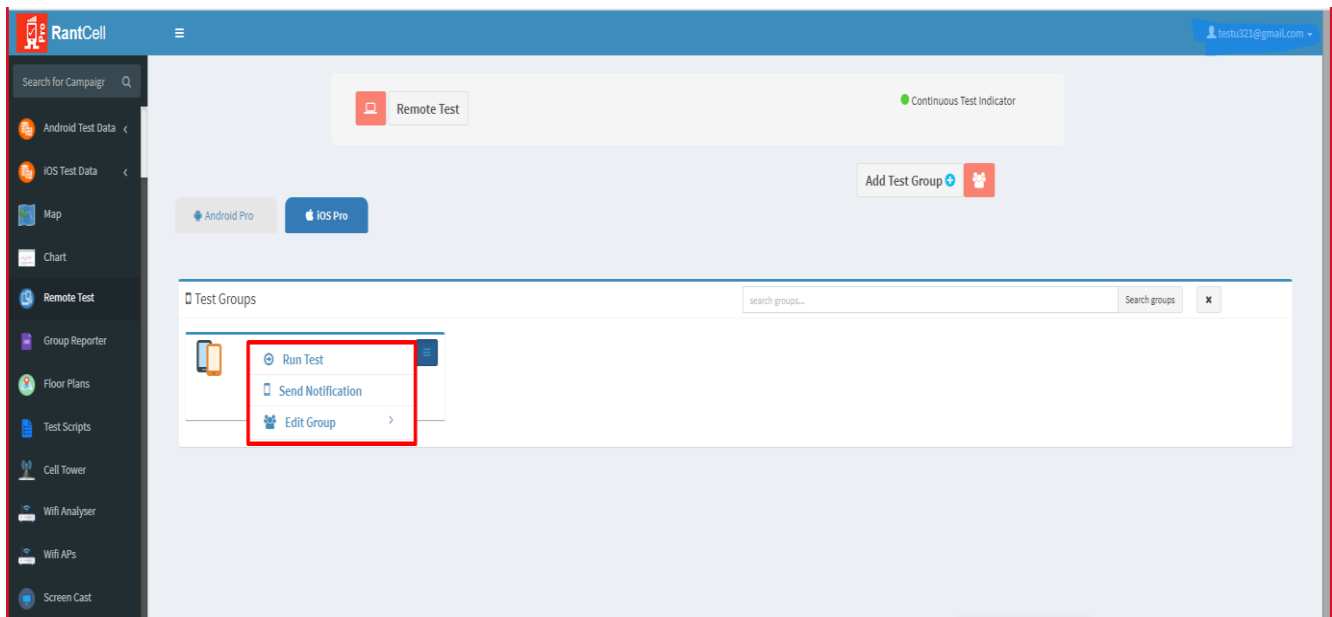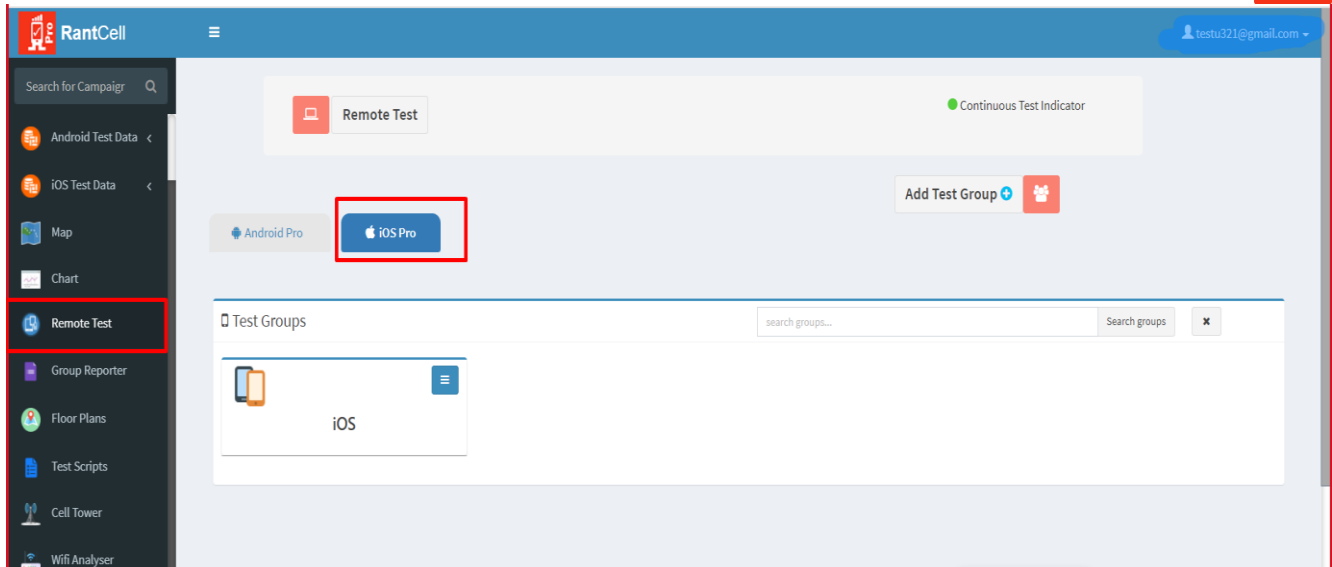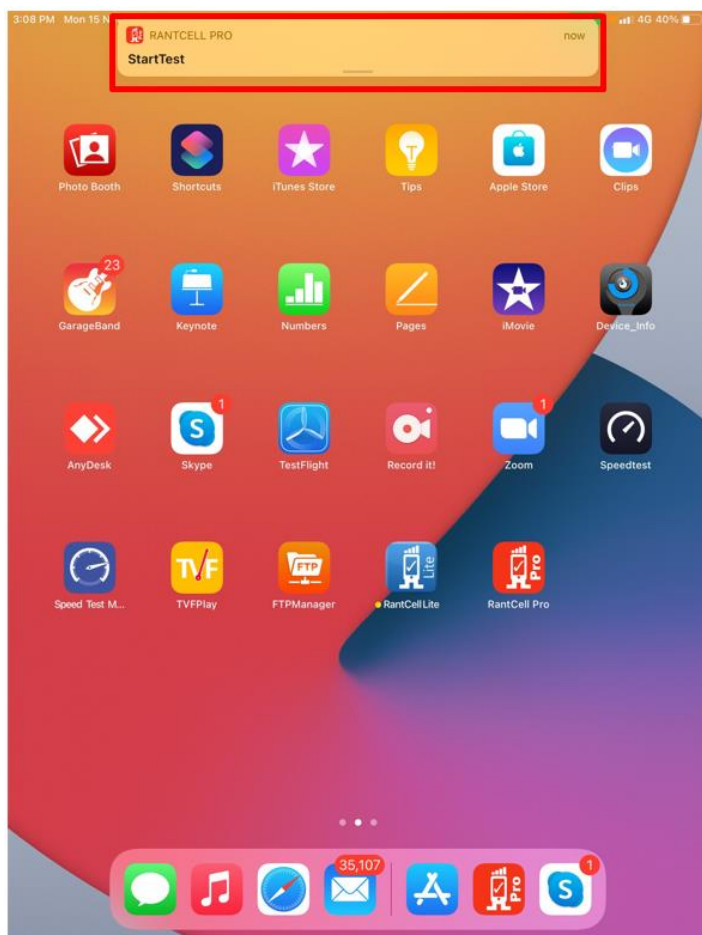
Feature ID 1059: Ping test capabilities in Dashboard for iOS.

Remote ping test for iOS pro has been introduced under Remote test feature in Dashboard. Users can assign the ping Test configurations from Dashboard. Please note for ping to start on iOS device user needs to click on notification on iOS tab.
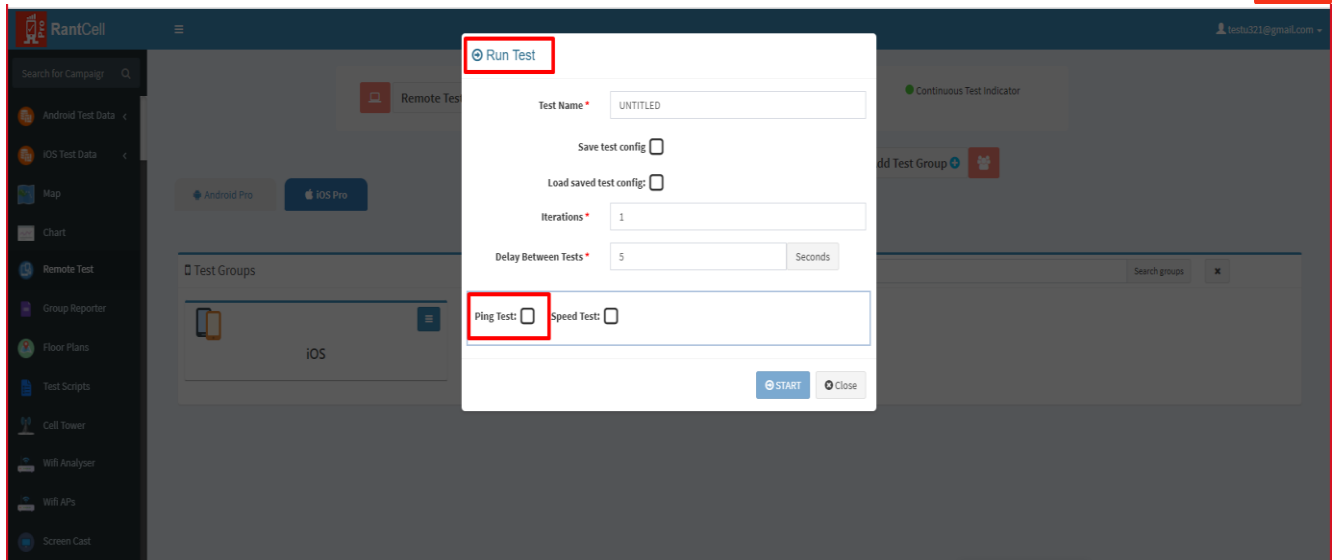
## Feature ID 1060: Remote speed test capabilities in Dashboard for iOS.

Remote speed test for iOS pro has been introduced under Remote test feature in Dashboard. Users can assign the speed Test configurations from Dashboard. Please note user needs to tap on notification message on the iOS device for it to start speed tests.
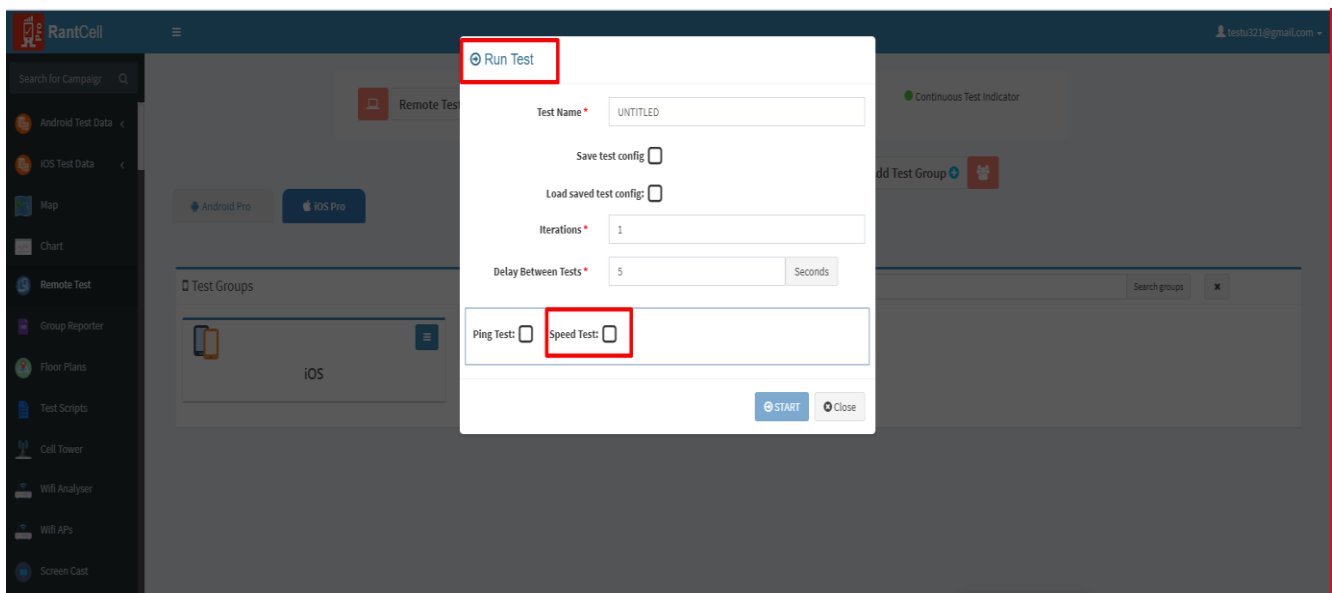
Feature ID 1061: Added send notifications capabilities in Dashboard for iOS.

Remote send notifications for iOS pro has been introduced under Remote test feature in Dashboard. Users can send text notifications from dashboard , for example to run tests in certain locations etc.
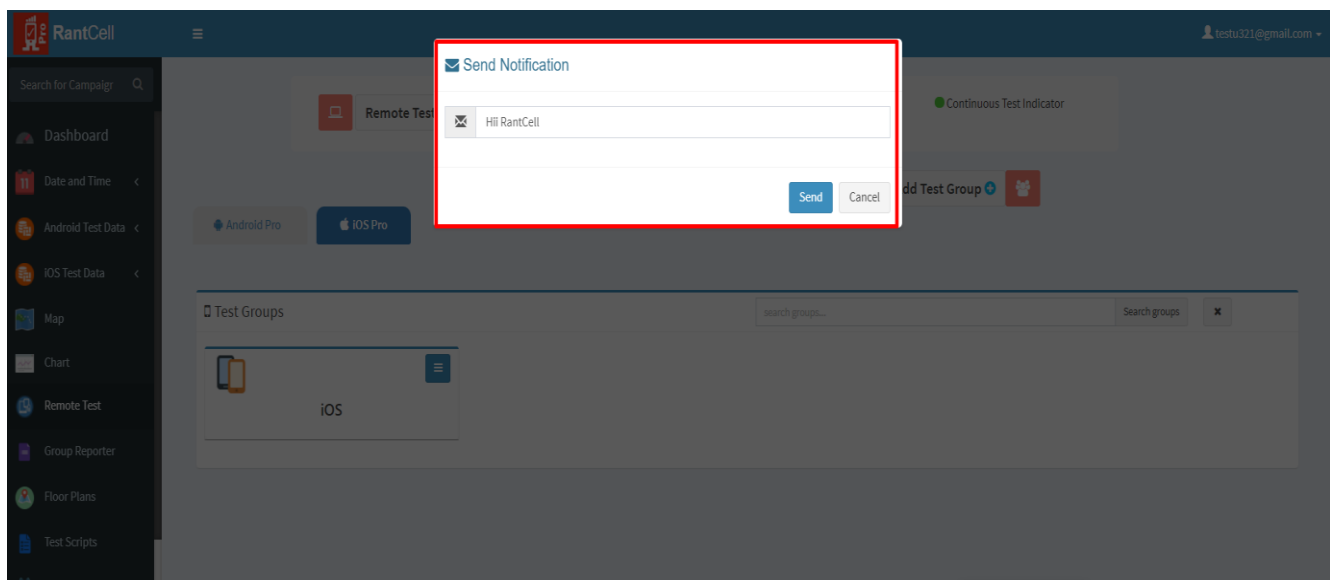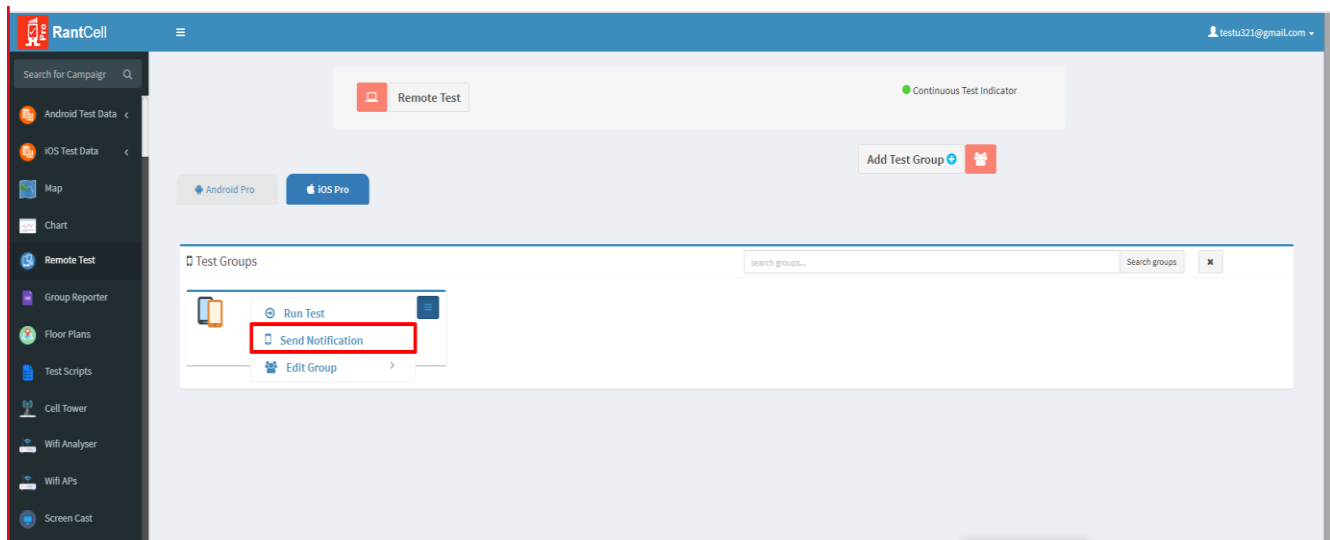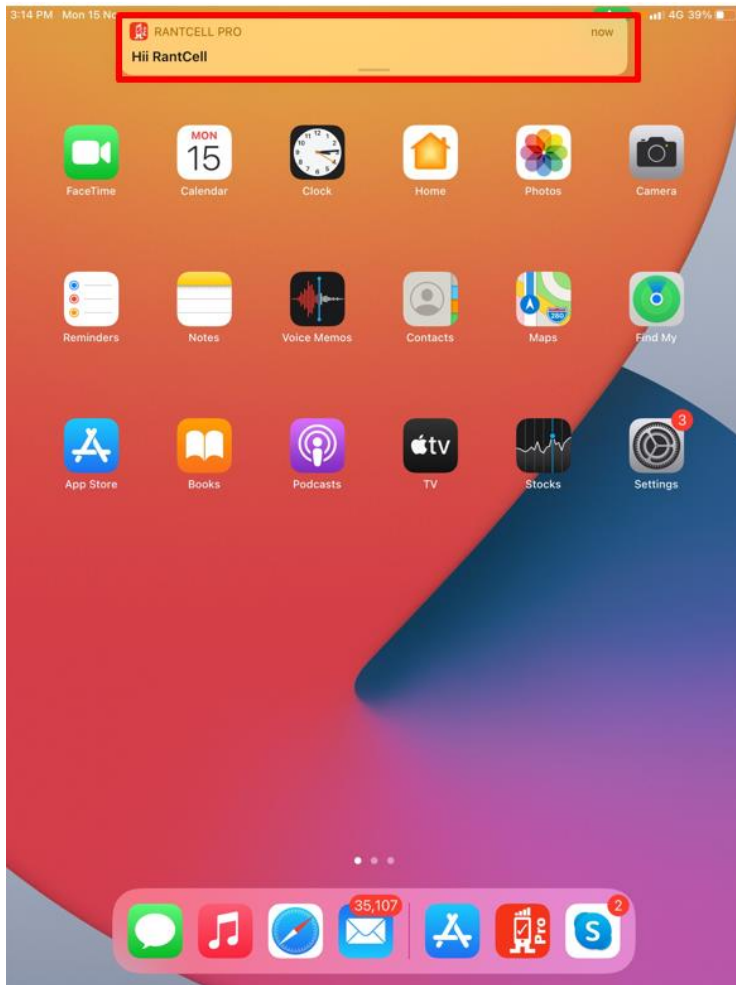
Feature ID 1062: Added features under App menu for iOS app.

iOS RantCell pro app menu includes the features such new test, settings, send logs to developer, FAQ, profile details and logout. Under settings there is an option to Enable/disable share data & enable/disable GPS logging.