

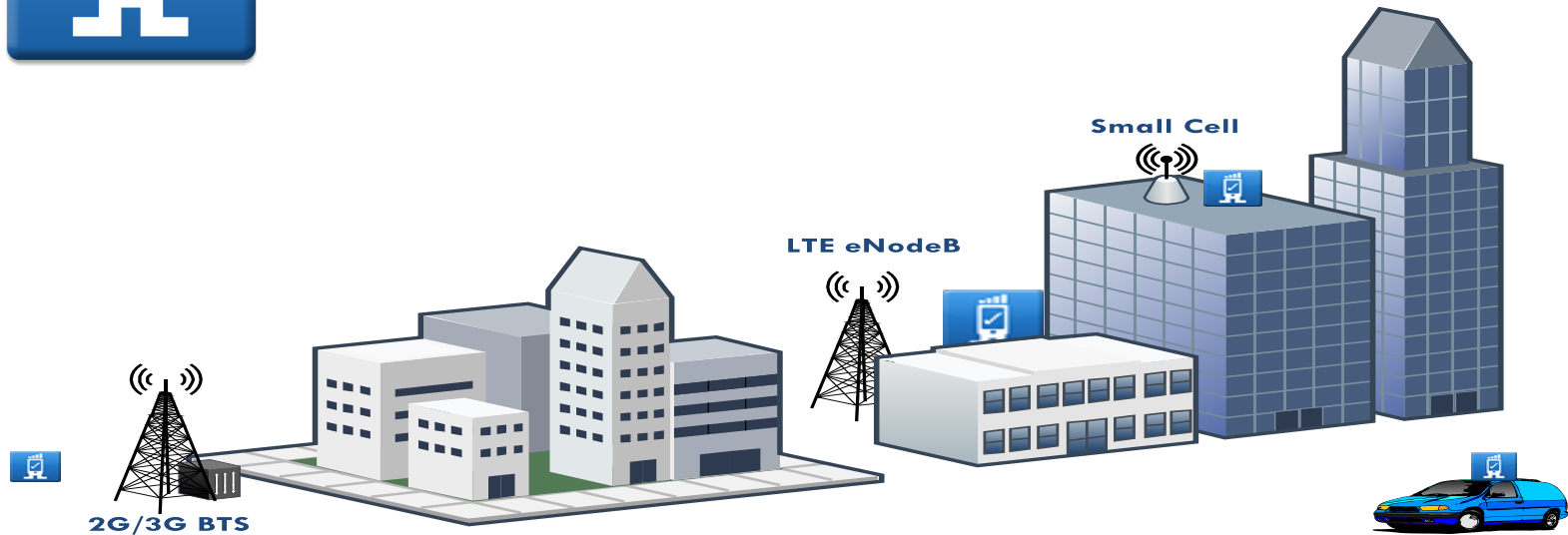
RantCell Mobile Operator Network QoS Benchmarking Using Smart Phone App

A deeper insight into user experience on
mobile network with cloud based analysis
capability

RantCell Pro App: **V 4.25**
RantCell Pro APP product of Megron Tech Ltd UK

www.rantcell.com

A portable but powerful mobile app to benchmark
2G/3G/LTE/CDMA/Wi-Fi networks or Small cell Network using
smart phones



- Indoor/Outdoor testing
- Drive Testing



App supported on all major OEM Android devices,
iPhone app coming soon.

✓ Identify zones with no coverage, dropped calls, low speeds, latency and other vitals.

✓ Rich graphical user interface for analysis and reporting on test data.

✓ A true benchmark test tool for cellular network testing

✓ Supports 2G, 3G, HSPA+ 4G, WiFi and CDMA, CDMA EVDO networks.

✓ View and analyse test data from multiple devices.

✓ Remotely manage test devices and perform online tracking.

(1/3) Swindon test

DATA	MCC	MNC	CID	LAC	RSRP	PSC
LTE	234		24577	11161	?	?

RSRP	RSRQ	PCI
-104	-8	131

▼ Ping test

^ Speed test

	Download	Upload
Current:	38.047 Mbps	4.666 Mbps
Average:	30.667 Mbps	5.523 Mbps
Peak:	38.047 Mbps	7.430 Mbps

DL result: OK
UL result:

Thread 1:	<div style="width: 42%;"></div>	42 %
Thread 2:	<div style="width: 50%;"></div>	50 %
Thread 3:	<div style="width: 52%;"></div>	52 %



RantCell Pro App

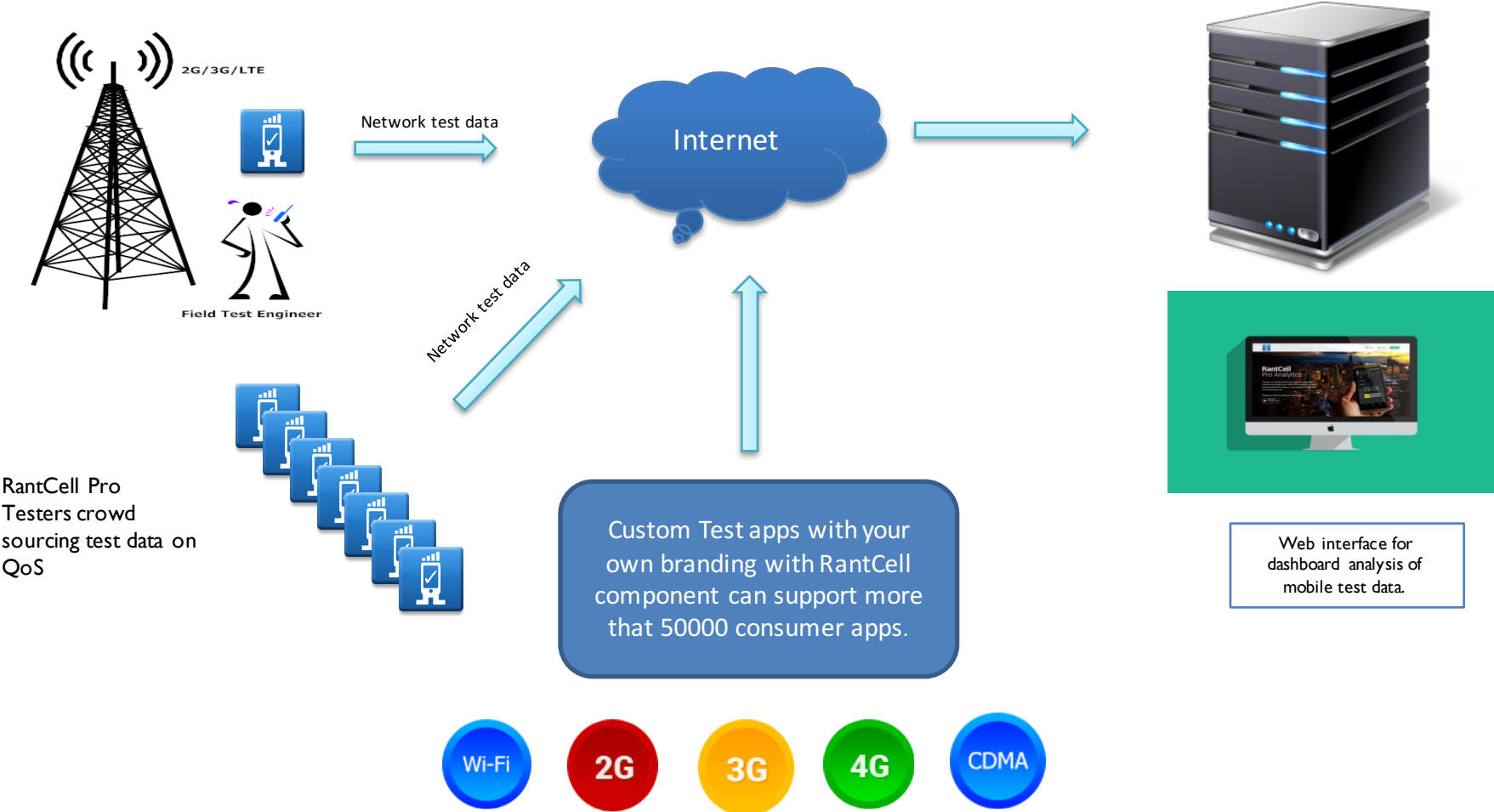
Key Features

RantCell Pro App

- 1 Transform Android smart phones to benchmark mobile network user experience.
- 2 Measure key performance indicators for 2G/3G/LTE/CDMA networks.
- 3 Capture network QoS/location from field testing which instantly available on device and cloud
- 4 Multipurpose app, static ,drive testing , Lab load testing , plus on device results analysis UI
- 5 Measures network latency , RSSI/RSCP, network information , data rates ,CSSR etc
- 6 A field test tool for 3G and LTE site for validataion of services.
- 7 Build coverage maps , geo tag data services and identify user expeirance issues.

RantCell Pro test solution for low to moderate testing requirements hosted on www.rantcell.com on Cloud

www.rantcell.com on Amazon EC2 cloud
Network QoS, GPS, users, Test data



Key Features

RantCell Pro Analytics via cloud, suitable low to moderate testing requirements

1

A web browser based dashboard UI to perform post analysis on test results.

2

Rich graphical user interface Google Maps, Graph and table view analysis.

3

Run tests on upto 5 smart phones per account and performe combined analysis

4

Upto 3 months of historical data storage and supports upto 7 days query

5

QoS, Data rates and RAN technology (2G,3G,4G and CDMA) map plots .

6

Configure tests on devices remotely from cloud dashboard and is limited to 5 devices.

7

A low cost solution and quick to setup by signing up online at www.rantcell.com

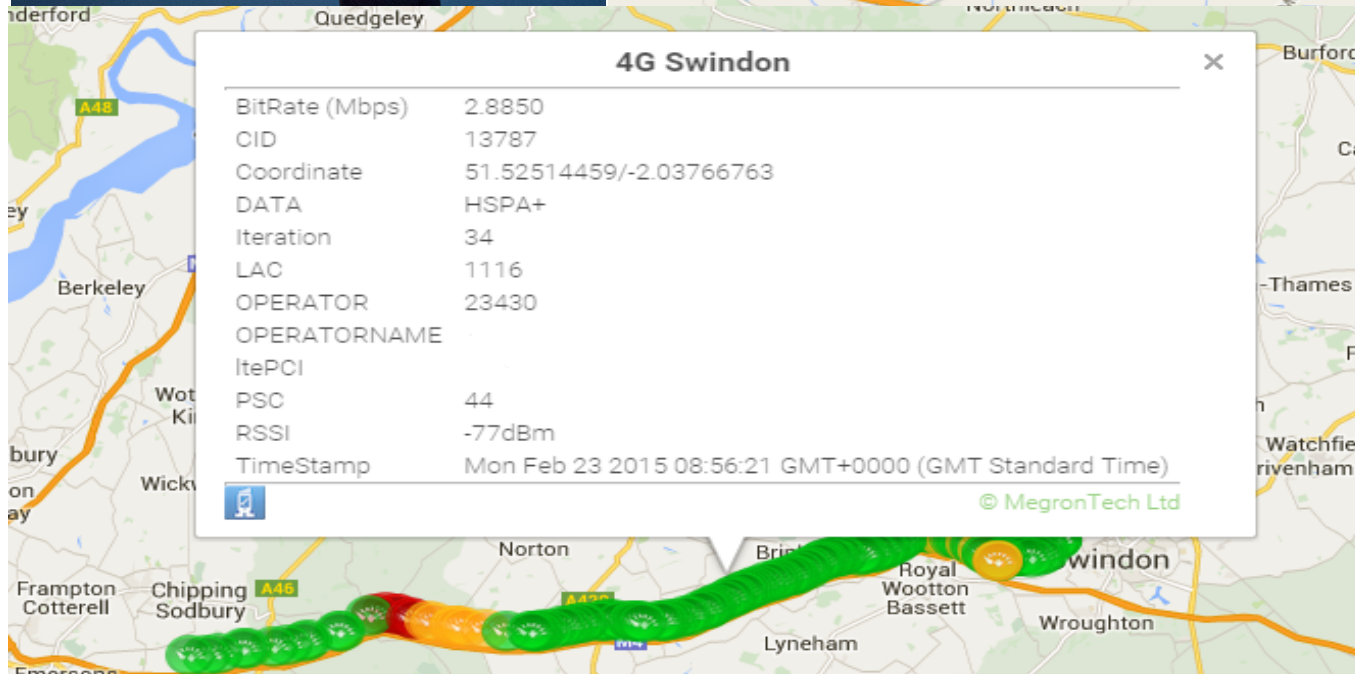
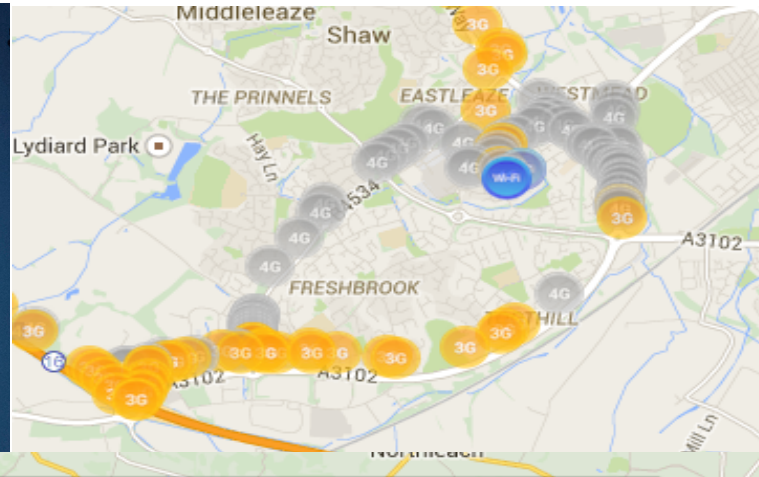
8

Perform online tracking of devices and manage the tests remotely.

RANTCELL PRO ANALYTICS

ONLY APP IN THE WORLD TO TRANSFORM YOUR SMART PHONE INTO MOBILE NETWORK DRIVE TEST TOOLS. GET A TRUE BENCHMARK PERFORMANCE OF MOBILE NETWORK ON RANTCELL PRO ANALYTICS. A SMART SOLUTION TO TEST YOUR CELLULAR NETWORK ON LARGE SCALE.

DOWNLOAD
OUR RANTCELL TESTING APP
FOR FREE ON PLAY STORE



info@rantcell.com
www.rantcell.com

Key Features

RantCell Pro Analytics for Enterprise with dedicated cloud

1

Crowd source the test data from upto 2000 field test devices.

2

A dedicated cloud with individual db to serve enterprise testing requirements

3

Capture network coverage map of network in real time from smart phone (2G,3G,4G,CDMA)

4

Identify network issues based on events (Call Drop, packet drops etc)

5

Maintenance free cloud server with cloud security and pay for usage only.

6

Configure tests on devices remotely upto 500 devices from cloud dashboard.

7

Add employees /sites to access the RantCell cloud server get insight into network QoS.

8

Visualise network assets such base stations on maps view.

UI Samples and parameters

RantCell

DATA	MCC	MNC	CID	LAC	RSSI	PSC
HSPA+	234		46622	1077	-105dBm	179

New Campaign
Create a new test campaign

Location	Time	Status
Oxford street	22 Oct 13:40	Completed
Train to London	22 Oct 13:35	Completed
Train to London	22 Oct 13:33	Aborted
Train to London	22 Oct 13:30	Completed
Train to London	22 Oct 13:28	Aborted
Train to London	22 Oct 13:25	Completed
Train to London		

(1/3) Swindon test

DATA	MCC	MNC	CID	LAC	RSSI	PSC
LTE	234		24577	11161	?	?

RSRP	RSRQ	PCI
-111	-7	131

▼ Ping test

^ Speed test

	Download	Upload
Current:	38.047 Mbps	6.171 Mbps
Average:	30.667 Mbps	5.379 Mbps
Peak:	38.047 Mbps	7.364 Mbps

DL result: OK
UL result:

Thread	Percentage
Thread 1:	26 %
Thread 2:	35 %
Thread 3:	35 %

M4 Bristol

DATA	MCC	MNC	CID	LAC	RSSI	PSC
LTE	234		24577	11161	?	?

RSRP	RSRQ	PCI
-104	-7	?

RESULTS | **DETAILS**

^ Call test

Call setup times (seconds):
Min = 3.736; Avg = 4.781; Max = 7.967

Category	Count
Calls attempted:	13
Calls successful:	12
Calls failed:	1

Call success rate: 92%

Benefits and Cost Saving



Designed to work
Autonomously once Test
Campaigns are configured
and launched. Tester has to
only ensure the power supply
as Mobile battery life are
limited.



Manual Vs Automation

1

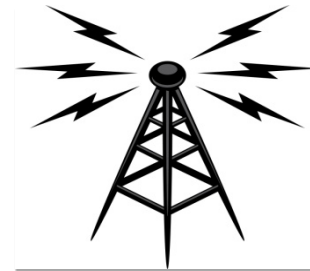
Quick to setup, no laptops plus drivers. Only quick installation of RantCell app once on smart phone or tablet and ready to go. Less time and effort hence cost saving.

2

Expensive RF analyzer tools could be avoided where applicable as RantCell has build in feature to identify Key network parameters.

3

Portable, carry any where and test anywhere



Road Map 2016



RantCell Pro app roadmap features

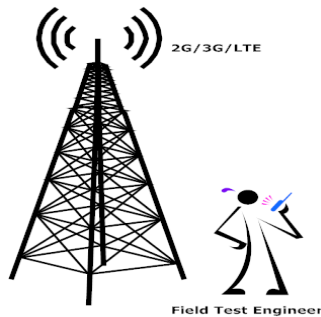
- Roadmap features on RantCell solution
- Support for HTTP/Streaming testing (Mar 2016)
- Multi RAB testing (2016 Jan)
- Voice quality measurement (POLQA) for 3G/VoLTE (2016 Mar)
- Cell Lock feature (2016 Mar)
- Support for ISPs (2016 Mar)
- RRC Layer 3 messaging (2016 Sep)
- Support for operator customer network related complaints (2016 Mar)



RantCell customer survey App MNOs

RantCell is highly simplified app, which enables any smart phone user to perform simple tasks by touch of a button and enables key network measurements to be captures , helps operators and MVNOs to proactively capture network issues.

Operators can deploy this app on mass scale ,collect network issues in real time from the customer app. Save site visits by deploying onto the customer devices with their own branding.



RantCell customer survey for MNOs

1

Portable & simple user friendly UI to set up tests and Quick to setup

2

Runs on customer device , as an option can be made to run in background to capture network KPI. Enables operator to capture customer complaints proactively.

3

Mass deployable in excess of 1million users

4

Backend system to consolidate all tests results from the loyal users

5

Compatible on Android and iOS.

6

Distribute on Google Play and Apps World via your own Brand.

7

GSM/GPRS,UMTS,HSPA+,LTE and CDMA are supported Access Technologies

For sales and pricing please contact

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www.megrontech.co.uk