



Study of download speeds of 150 smart phones, tablets and phablets

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Summary: The device the consumer is carrying very often limits the quality of the Internet access on mobile devices. This is not always obvious to the consumer when choosing a device (smart phone, tablet or a phablet). In this report, we show the maximum achievable download bit rate of 150 distinct device models. There are huge differences, up to 100 fold. With many devices, a high price does not automatically imply a high performance.

Netradar (<http://www.netradar.org>) is world-wide mobile network and mobile device measurement and benchmarking platform. It is developed and run by Aalto University in Finland. The system has measurement points in the cloud in Asia, EU and US. All measurements are anonymous.

The service can today show the performance of various mobile operators in the world. As part of new analytics we are working on, we analyzed the top speeds achieved by different smart phones, tablets and phablets.

This report lists the 150 most typical devices in our database, i.e., the devices that have most measurements by our users. The most popular devices have more than ten thousand measurements, while the last devices included in this report have still at least a couple of hundred measurements by various users around the world.

There are in total about 1300 unique device models and with different operating systems, the total combinations are significantly higher.

The comparisons in this report show the maximum achievable download speed in a commercial mobile network using a single TCP flow (Transmission Control Protocol), the core protocol to provide reliable transfers on the Internet. The value shown is the average of the five highest measurements recorded on a device.

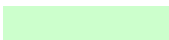
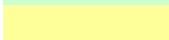
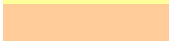

The accuracy of the data, in particular, performance measurements, is highly dependent on the location, network congestion, and data plan. For example,

- the user might be inside a building with a very bad signal,
- the mobile operator's network might be congested,
- the current location might only support very low bit rate GPRS or 3G without HSPA upgrade,
- the subscription might have a bit rate limitation that does not allow top speeds,
- the device has a performance bottleneck, or
- the device could actually be broken.



Yet, even more important is the measurement technology, the client software on the mobile device and the server back-end, and the location of the servers. The Netradar system has been developed since 2010 with the goal of offering measurements that are scientifically proven. We have spent most of our development of the back-end systems to make it reliable and able to handle loads in such a way that measurements are as reliable as possible, and show the performance on the end-user side. We use the data in our research, and therefore it has to be as good as possible, and reflect the real performance of ordinary mobile users around the world.

The coloring of a device result in the following tables is based on how many measurements the database has of that particular device.

	• More than 5000 measurements
	• 1000-5000 measurements
	• 500-1000 measurements
	• 200-500 measurements

The number of measurements affects how reliable the data is. In this report, measurements in red only have a few hundred samples so these should be considered with caution and might not reflect fully the top performance achievable with a device. The more measurements there are, the more confident we can be about the achievable download speed of a particular device model.

This report is the first in a series of planned benchmarks.

The values in the shown tables are available as an Excel-file for media upon request from Professor Jukka Manner (jukka.manner@aalto.fi).



List of 150 mobile devices in order of highest download speed

Device	Download bit rate (Mbps)	Device	Download bit rate (Mbps)
LG G2 D802	103,783	Samsung Galaxy S3 mini NFC (GT-I8190N)	11,151
Samsung Galaxy S4 4G+ (GT-I9506)	100,917	Samsung Galaxy S III mini (GT-I8190)	11,080
Samsung Galaxy Note III (SM-N9005)	97,473	Apple iPhone 4S	10,852
Nokia Lumia 920	96,146	Samsung Galaxy Ace 2 (GT-I8160)	10,766
Samsung Galaxy S IV (GT-I9505)	95,861	Nokia Lumia 800	10,753
Nokia Lumia 1020	95,831	Samsung Galaxy S Advance (GT-I9070)	10,578
Samsung Galaxy S III LTE (GT-I9305)	95,493	Pantech IM-A850L	10,545
Samsung Galaxy Note 10.1 LTE (GT-N8020)	95,330	Sony Xperia Go (ST27i)	10,422
Samsung Note LTE (GT-N7105)	95,079	HTC Desire HD A9191	10,385
Sony Xperia Tablet Z (SGP321)	94,296	Nokia Lumia 710	9,902
Samsung Galaxy Note 8.0 LTE (GT-N5120)	94,095	Sony Ericsson Acro S (LT26w)	9,888
Samsung Galaxy S4 Active (GT-I9295)	93,688	Sony Ericsson Xperia Arc S (LT18i)	9,450
Apple iPhone 5S	93,522	Sony Xperia sola (MT27i)	9,335
Nokia Lumia 925	90,344	HTC Vision	9,287
LG Nexus 5	85,403	Nokia 808 PureView	9,225
Nokia Lumia 820	85,144	Motorola Razr XT910	8,437
Samsung Galaxy Tab 3 8.0 (SM-T315)	84,671	Samsung Galaxy S III mini (GT-I8190L)	8,410
Sony Xperia V (LT25i)	84,108	HTC Desire HD	8,391
Samsung Galaxy S4 mini (GT-I9195)	84,000	Huawei MediaPad 7 Vogue	8,330
Sony Xperia Z1 (C6903)	75,302	Nokia 701	8,231
Nokia Lumia 625	74,039	Samsung Galaxy S Plus (GT-I9001)	8,228
Apple iPad Air	72,704	HTC Incredible S	8,139
HTC One	71,796	Nokia 500	7,968
Apple iPhone 5	69,994	HTC Sensation Z710e	7,755
Apple iPad (4th gen.)	69,881	Sony Ericsson Xperia S (LT26i)	7,588
Samsung Galaxy Tab 8.9 LTE (GT-P7320)	57,348	Apple iPhone 4	7,400
Asus Nexus 7	56,595	Nokia 700	7,398
Jolla (unofficial LTE extension)	55,116	HTC Desire S	7,180
Asus PadFone 2	54,853	Huawei Honor (U8860)	7,022
Samsung Galaxy Mega (GT-I9205)	51,255	Nokia N8-00	6,555
Nokia Lumia 1520	49,738	ZTE Blade III	6,456
Sony Xperia Z C6603	48,896	Apple iPad 2	6,343
Samsung Galaxy Tab 3 10.1 LTE (GT-P5220)	48,751	Motorola Defy Plus (MB526)	6,312
Apple iPad Mini (1st gen.)	47,378	Samsung Galaxy Xcover (GT-S5690)	6,310
Samsung Galaxy S4 (SGH-I337M)	39,757	TCT Alcatel One Touch 997D	6,300
HTC One (6500LVW)	38,813	Samsung Galaxy Tab (GT-P1000)	6,290
Apple iPhone 5C	36,045	Samsung Galaxy Trend (GT-S7560)	6,284
Apple iPad (3rd gen.)	26,483	Caterpillar B15 (Compal B15)	6,250
		Samsung Galaxy S (GT-I9000)	6,250



LG Nexus 4	26,175	Sony Ericsson Xperia Arc (LT15i)	6,235
Samsung Galaxy Express (GT-I8730)	24,365	Apple iPhone 3GS	6,208
Samsung Galaxy S4 (Sprint) (SPH-L720)	24,211	Apple iPad	6,205
SonyXperia ZR (C5503)	23,083	Sony Ericsson Xperia Active (ST17i)	6,204
Samsung Galaxy Ativ S (GT-I8750)	22,374	Motorola Defy (MB525)	6,202
Nokia Lumia 900	20,895	Samsung Galaxy Y (GT-S5360)	6,163
Jolla	20,451	HTC Desire 500	6,137
Huawei MediaPad 10 LINK	19,332	LG Optimus L5 E610	6,057
Lenovo IdeaTab A3000-H	19,304	Samsung Nexus S	5,996
Samsung Galaxy S III (GT-I9300)	19,141	Sony Ericsson Xperia Ray (ST18i)	5,990
HTC One X	18,297	ZTE Blade	5,970
Samsung Galaxy Note 10.1 (GT-N8000)	17,507	Huawei Ideos X5 (U8800)	5,960
Nokia Lumia 520	16,878	Nokia 603	5,785
LG Optimus 4X HD P880	16,438	Nokia E7-00	5,775
Samsung Galaxy S II (GT-I9100)	15,947	Nokia C7-00	5,696
Nokia Lumia 720	15,938	LG Optimus L7 P700	5,602
Samsung Galaxy Tab 2 10.1 (GT-P5100)	15,869	HTC Desire	5,585
Samsung Note II (GT-N7100)	15,625	Sony Xperia Tipo (ST21i)	5,341
Nokia Lumia 620	15,477	Samsung Galaxy Ace (GT-S5830i)	5,196
Samsung Galaxy Note (GT-N7000)	15,178	Samsung Galaxy S Duos (GT-S7562)	5,156
HTC One S	15,137	Nokia C6-01	4,916
Asus Transformer Pad TF300TG	14,718	Nokia E6-00	4,877
Samsung Galaxy 2 7.0 (GT-P3100)	14,525	HTC Desire X	4,452
Samsung Galaxy Tab 8.9 (GT-P7300)	14,279	Samsung Galaxy Gio (GT-S5660)	4,436
Samsung Galaxy S4 (GT-I9500)	14,164	Samsung Galaxy Ace (GT-S5830)	4,015
Samsung Galaxy Nexus	13,920	Samsung Galaxy Mini (GT-S5570)	3,521
Samsung Galaxy S II Plus (GT-I9105P)	13,719	ZTE Avail Z990	3,446
Lenovo IdeaTab S6000-H	13,515	HTC Explorer A310e	3,396
Nokia N9	13,480	Samsung Galaxy Pocket (GT-S5300)	3,153
Samsung Galaxy Tab 3 7.0 (SM-T211)	12,557	Nokia Lumia 610	2,708
Asus Fonepad (ME371MG)	12,109	Sony Xperia E (C1505)	2,620
Mobii Phone 5045	12,078	Samsung Galaxy Mini Plus (GT-S5570I)	1,886
Sony Xperia P (LT22i)	11,754	Samsung Focus (AT&T) (SGH-i917)	1,748
Samsung Galaxy Xcover 2 (GT-S7710)	11,547	Motorola Triumph (MOTWX435KT)	1,655
Samsung Galaxy Tab 10.1 (GT-P7500)	11,356	Nokia Lumia 510	1,410
Huawei Ascend P6-U06	11,261	Motorola Milestone 2 (MotoA953)	1,188
Samsung Galaxy tab 3 10.1 (GT-P5200)	11,240		



List of 150 mobile devices in order of popularity (most to least measurements)

Device	Download bit rate (Mbps)	Device	Measurements
Samsung Galaxy S II (GT-I9100)	15,947	Sony Xperia P (LT22i)	11,754
Nokia Lumia 920	96,146	Asus Transformer Pad TF300TG	14,718
Samsung Galaxy S III (GT-I9300)	19,141	Sony Xperia Tablet Z (SGP321)	94,296
Sony Ericsson Acro S (LT26w)	9,888	Samsung Galaxy Tab 8.9 (GT-P7300)	14,279
Samsung Galaxy S III LTE (GT-I9305)	95,493	Nokia 701	8,231
Nokia Lumia 800	10,753	Samsung Galaxy S4 (SGH-I337M)	39,757
Samsung Galaxy S IV (GT-I9505)	95,861	Samsung Galaxy Ace (GT-S5830)	4,015
Samsung Note LTE (GT-N7105)	95,079	Sony Xperia Z1 (C6903)	75,302
Samsung Galaxy Tab 2 10.1 (GT-P5100)	15,869	Sony Xperia Go (ST27i)	10,422
Samsung Galaxy S Advance (GT-I9070)	10,578	Jolla (unofficial LTE extension)	55,116
Samsung Galaxy Note (GT-N7000)	15,178	Samsung Galaxy Gio (GT-S5660)	4,436
LG Optimus 4X HD P880	16,438	Caterpillar B15 (Compal B15)	6,250
Nokia Lumia 820	85,144	Sony Ericsson Xperia Arc (LT15i)	6,235
Samsung Galaxy Note 10.1 (GT-N8000)	17,507	Samsung Galaxy Pocket (GT-S5300)	3,153
Samsung Galaxy Xcover 2 (GT-S7710)	11,547	Nokia Lumia 610	2,708
Nokia Lumia 900	20,895	LG Optimus L5 E610	6,057
Sony Xperia V (LT25i)	84,108	Samsung Galaxy Tab 8.9 LTE (GT-P7320)	57,348
Apple iPhone 5	69,994	Nokia C6-01	4,916
Nokia Lumia 1020	95,831	Sony Ericsson Xperia Arc S (LT18i)	9,450
Samsung Galaxy Xcover (GT-S5690)	6,310	Nokia Lumia 1520	49,738
Nokia Lumia 925	90,344	Mobii Phone 5045	12,078
Nokia N9	13,480	Huawei MediaPad 7 Vogue	8,330
Samsung Galaxy Y (GT-S5360)	6,163	Motorola Razr XT910	8,437
HTC Vision	9,287	Lenovo IdeaTab A3000-H	19,304
Nokia N8-00	6,555	Samsung Galaxy S Duos (GT-S7562)	5,156
Nokia Lumia 520	16,878	LG G2 D802	103,783
Apple iPhone 4S	10,852	TCT Alcatel One Touch 997D	6,300
Samsung Note II (GT-N7100)	15,625	Samsung Galaxy Ace 2 (GT-I8160)	10,766
Samsung Galaxy S III mini (GT-I8190)	11,080	Samsung Galaxy S4 (GT-I9500)	14,164
Samsung Galaxy S Plus (GT-I9001)	8,228	Sony Xperia sola (MT27i)	9,335
HTC Desire S	7,180	Sony Xperia E (C1505)	2,620
Samsung Galaxy S4 Active (GT-I9295)	93,688	Motorola Defy (MB525)	6,202
HTC Desire HD A9191	10,385	HTC Sensation Z710e	7,755
Samsung Galaxy 2 7.0 (GT-P3100)	14,525	Huawei Ascend P6-U06	11,261
Nokia Lumia 625	74,039	Samsung Galaxy Ativ S (GT-I8750)	22,374
Nokia E7-00	5,775	Nokia 500	7,968
Apple iPad (3rd gen.)	26,483	Nokia 700	7,398
Nokia Lumia 620	15,477	Samsung Nexus S	5,996
		Sony Ericsson Xperia Active (ST17i)	6,204



Apple iPhone 4	7,400	Samsung Galaxy S III mini (GT-I8190L)	8,410
Sony Xperia Z C6603	48,896	Nokia Lumia 510	1,410
Samsung Galaxy S4 4G+ (GT-I9506)	100,917	Motorola Milestone 2 (MotoA953)	1,188
Apple iPad (4th gen.)	69,881	Huawei Honor (U8860)	7,022
Samsung Galaxy S II Plus (GT-I9105P)	13,719	Lenovo IdeaTab S6000-H	13,515
Samsung Galaxy S4 mini (GT-I9195)	84,000	HTC Incredible S	8,139
ZTE Blade III	6,456	Samsung Galaxy Tab 3 7.0 (SM-T211)	12,557
Nokia Lumia 710	9,902	SonyXperia ZR (C5503)	23,083
Nokia 808 PureView	9,225	HTC Explorer A310e	3,396
Samsung Galaxy Note III (SM-N9005)	97,473	Apple iPhone 3GS	6,208
HTC One	71,796	Huawei Ideos X5 (U8800)	5,960
Samsung Galaxy Ace (GT-S5830i)	5,196	Huawei MediaPad 10 LINK	19,332
Asus PadFone 2	54,853	HTC Desire	5,585
Apple iPad 2	6,343	Motorola Triumph (MOTWX435KT)	1,655
LG Nexus 4	26,175	Asus Fonepad (ME371MG)	12,109
Samsung Galaxy Note 10.1 LTE (GT-N8020)	95,330	LG Nexus 5	85,403
Samsung Galaxy S (GT-I9000)	6,250	Sony Ericsson Xperia Ray (ST18i)	5,990
Nokia Lumia 720	15,938	Apple iPhone 5C	36,045
ZTE Avail Z990	3,446	Pantech IM-A850L	10,545
Apple iPhone 5S	93,522	Samsung Galaxy Mini (GT-S5570)	3,521
Samsung Galaxy Tab (GT-P1000)	6,290	HTC Desire HD	8,391
Nokia C7-00	5,696	LG Optimus L7 P700	5,602
Samsung Galaxy Note 8.0 LTE (GT-N5120)	94,095	Samsung Galaxy Tab 3 8.0 (SM-T315)	84,671
Samsung Galaxy Trend (GT-S7560)	6,284	Nokia 603	5,785
Sony Ericsson Xperia S (LT26i)	7,588	Samsung Galaxy S4 (Sprint) (SPH-L720)	24,211
ZTE Blade	5,970	Nokia E6-00	4,877
Samsung Galaxy Mega (GT-I9205)	51,255	Samsung Galaxy Express (GT-I8730)	24,365
Samsung Galaxy Tab 10.1 (GT-P7500)	11,356	Samsung Focus (AT&T) (SGH-i917)	1,748
Samsung Galaxy S3 mini NFC (GT-I8190N)	11,151	Jolla	20,451
Apple iPad Mini (1st gen.)	47,378	HTC Desire 500	6,137
Apple iPad Air	72,704	HTC One (6500LVW)	38,813
Samsung Galaxy Nexus	13,920	HTC Desire X	4,452
HTC One S	15,137	Apple iPad	6,205
Motorola Defy Plus (MB526)	6,312	Samsung Galaxy Tab 3 10.1 LTE (GT-P5220)	48,751
Asus Nexus 7	56,595	Samsung Galaxy tab 3 10.1 (GT-P5200)	11,240
HTC One X	18,297	Samsung Galaxy Mini Plus (GT-S5570I)	1,886
Sony Xperia Tipo (ST21i)	5,341		



List of 150 mobile devices in alphabetical order based on vendor

Device	Download bit rate (Mbps)		
Apple iPad	6,205	Nokia N8-00	6,555
Apple iPad (3rd gen.)	26,483	Nokia N9	13,480
Apple iPad (4th gen.)	69,881	Pantech IM-A850L	10,545
Apple iPad 2	6,343	Samsung Focus (AT&T) (SGH-I917)	1,748
Apple iPad Air	72,704	Samsung Galaxy 2 7.0 (GT-P3100)	14,525
Apple iPad Mini (1st gen.)	47,378	Samsung Galaxy Ace (GT-S5830)	4,015
Apple iPhone 3GS	6,208	Samsung Galaxy Ace (GT-S5830i)	5,196
Apple iPhone 4	7,400	Samsung Galaxy Ace 2 (GT-I8160)	10,766
Apple iPhone 4S	10,852	Samsung Galaxy Ativ S (GT-I8750)	22,374
Apple iPhone 5	69,994	Samsung Galaxy Express (GT-I8730)	24,365
Apple iPhone 5C	36,045	Samsung Galaxy Gio (GT-S5660)	4,436
Apple iPhone 5S	93,522	Samsung Galaxy Mega (GT-I9205)	51,255
Asus Fonepad (ME371MG)	12,109	Samsung Galaxy Mini (GT-S5570)	3,521
Asus Nexus 7	56,595	Samsung Galaxy Mini Plus (GT-S5570I)	1,886
Asus PadFone 2	54,853	Samsung Galaxy Nexus	13,920
Asus Transformer Pad TF300TG	14,718	Samsung Galaxy Note (GT-N7000)	15,178
Caterpillar B15 (Compal B15)	6,250	Samsung Galaxy Note 10.1 (GT-N8000)	17,507
HTC Desire	5,585	Samsung Galaxy Note 10.1 LTE (GT-N8020)	95,330
HTC Desire 500	6,137	Samsung Galaxy Note 8.0 LTE (GT-N5120)	94,095
HTC Desire HD	8,391	Samsung Galaxy Note III (SM-N9005)	97,473
HTC Desire HD A9191	10,385	Samsung Galaxy Pocket (GT-S5300)	3,153
HTC Desire S	7,180	Samsung Galaxy S (GT-I9000)	6,250
HTC Desire X	4,452	Samsung Galaxy S Advance (GT-I9070)	10,578
HTC Explorer A310e	3,396	Samsung Galaxy S Duos (GT-S7562)	5,156
HTC Incredible S	8,139	Samsung Galaxy S II (GT-I9100)	15,947
HTC One	71,796	Samsung Galaxy S II Plus (GT-I9105P)	13,719
HTC One (6500LVW)	38,813	Samsung Galaxy S III (GT-I9300)	19,141
HTC One S	15,137	Samsung Galaxy S III LTE (GT-I9305)	95,493
HTC One X	18,297	Samsung Galaxy S III mini (GT-I8190)	11,080
HTC Sensation Z710e	7,755	Samsung Galaxy S III mini (GT-I8190L)	8,410
HTC Vision	9,287	Samsung Galaxy S IV (GT-I9505)	95,861
Huawei Ascend P6-U06	11,261	Samsung Galaxy S Plus (GT-I9001)	8,228
Huawei Honor (U8860)	7,022	Samsung Galaxy S3 mini NFC (GT-I8190N)	11,151
Huawei Ideos X5 (U8800)	5,960	Samsung Galaxy S4 (GT-I9500)	14,164
Huawei MediaPad 10 LINK	19,332	Samsung Galaxy S4 (SGH-I337M)	39,757
Huawei MediaPad 7 Vogue	8,330	Samsung Galaxy S4 (Sprint) (SPH-L720)	24,211
Jolla	20,451	Samsung Galaxy S4 4G+ (GT-I9506)	100,917
Jolla (unofficial LTE extension)	55,116	Samsung Galaxy S4 Active (GT-I9295)	93,688
		Samsung Galaxy S4 mini (GT-I9195)	84,000



Lenovo IdeaTab A3000-H	19,304	Samsung Galaxy Tab (GT-P1000)	6,290
Lenovo IdeaTab S6000-H	13,515	Samsung Galaxy Tab 10.1 (GT-P7500)	11,356
LG G2 D802	103,783	Samsung Galaxy Tab 2 10.1 (GT-P5100)	15,869
LG Nexus 4	26,175	Samsung Galaxy tab 3 10.1 (GT-P5200)	11,240
LG Nexus 5	85,403	Samsung Galaxy Tab 3 10.1 LTE (GT-P5220)	48,751
LG Optimus 4X HD P880	16,438	Samsung Galaxy Tab 3 7.0 (SM-T211)	12,557
LG Optimus L5 E610	6,057	Samsung Galaxy Tab 3 8.0 (SM-T315)	84,671
LG Optimus L7 P700	5,602	Samsung Galaxy Tab 8.9 (GT-P7300)	14,279
Mobii Phone 5045	12,078	Samsung Galaxy Tab 8.9 LTE (GT-P7320)	57,348
Motorola Defy (MB525)	6,202	Samsung Galaxy Trend (GT-S7560)	6,284
Motorola Defy Plus (MB526)	6,312	Samsung Galaxy Xcover (GT-S5690)	6,310
Motorola Milestone 2 (MotoA953)	1,188	Samsung Galaxy Xcover 2 (GT-S7710)	11,547
Motorola Razzr XT910	8,437	Samsung Galaxy Y (GT-S5360)	6,163
Motorola Triumph (MOTWX435KT)	1,655	Samsung Nexus S	5,996
Nokia 500	7,968	Samsung Note II (GT-N7100)	15,625
Nokia 603	5,785	Samsung Note LTE (GT-N7105)	95,079
Nokia 700	7,398	Sony Ericsson Acro S (LT26w)	9,888
Nokia 701	8,231	Sony Ericsson Xperia Active (ST17i)	6,204
Nokia 808 PureView	9,225	Sony Ericsson Xperia Arc (LT15i)	6,235
Nokia C6-01	4,916	Sony Ericsson Xperia Arc S (LT18i)	9,450
Nokia C7-00	5,696	Sony Ericsson Xperia Ray (ST18i)	5,990
Nokia E6-00	4,877	Sony Ericsson Xperia S (LT26i)	7,588
Nokia E7-00	5,775	Sony Xperia E (C1505)	2,620
Nokia Lumia 1020	95,831	Sony Xperia Go (ST27i)	10,422
Nokia Lumia 1520	49,738	Sony Xperia P (LT22i)	11,754
Nokia Lumia 510	1,410	Sony Xperia sola (MT27i)	9,335
Nokia Lumia 520	16,878	Sony Xperia Tablet Z (SGP321)	94,296
Nokia Lumia 610	2,708	Sony Xperia Tipo (ST21i)	5,341
Nokia Lumia 620	15,477	Sony Xperia V (LT25i)	84,108
Nokia Lumia 625	74,039	Sony Xperia Z C6603	48,896
Nokia Lumia 710	9,902	Sony Xperia Z1 (C6903)	75,302
Nokia Lumia 720	15,938	SonyXperia ZR (C5503)	23,083
Nokia Lumia 800	10,753	TCT Alcatel One Touch 997D	6,300
Nokia Lumia 820	85,144	ZTE Avail Z990	3,446
Nokia Lumia 900	20,895	ZTE Blade	5,970
Nokia Lumia 920	96,146	ZTE Blade III	6,456
Nokia Lumia 925	90,344		



About Netradar

The history of Netradar goes back to 2010 when the research group of Professor Jukka Manner started designing a system that would give accurate data to be used in research and scientific publications. In summer 2012 the system was launched as a beta in Finland, and since the system was very stable, it was opened worldwide in March 2013 with measurement points distributed in the cloud in Asia, EU and US.

By early 2014, there are more than 75'000 downloads of the app and thousands of measurements coming each day. There are about 2,4 million measurements done with the app, and each measurement holds about 500 data items, the database has over a billion data items. The measurement client is available for all major platforms Android, iOS and Windows Phone, but also for Symbian Belle, Meego and Sailfish (by Jolla).

There are about eight people working on the system and developing it constantly. All technology development is currently funded by Aalto University.

Some first published papers that show data from Netradar include:

1. Sebastian Sonntag, Henna Suomi, Economic feasibility of multipath protocols in mobile Internet of Things applications. Wiley Concurrency and computation, 2013, ISSN: 1532-0626. <http://onlinelibrary.wiley.com/doi/10.1002/cpe.3127/pdf>
2. Sebastian Sonntag, Lennart Schulte, Jukka Manner, Mobile Network Measurements – It's not all about Signal Strength. 2013 IEEE Wireless Communications and Networking Conference (WCNC), Shanghai, China, 7-10 April 2013. ISBN: 978-1-4673-5938-2, ISSN: 1525-3511, eISBN: 978-1-4673-5937- http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6555324
3. Sebastian Sonntag, Jukka Manner, Lennart Schulte, Netradar - Measuring the Wireless World. The 9th International Workshop on Wireless Network Measurements (WiNMee), Tsukuba Science City, Japan, 13-17 May 2013. ISBN: 978-1-61284-824-2. http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6576402