

About this data: Mobile local and unitary authority area

To create our <u>Connected Nations Report</u> Ofcom collected and analysed data from all the mobile network operators. This file contains mobile network coverage information from the operators. Further information can be found in the <u>Connected Nations Methodology</u>.

The coverage availability was collected as a snapshot in May 2019.

Due to variations in mobile performance over time, the file should not be regarded as a definitive and fixed view of the UK's mobile infrastructure. However, the information provided in this file may be useful in identifying variations in mobile performance by geography.

If you have any questions or feedback on the data please contact us at open.data@ofcom.org.uk.

We are providing this data on an open basis via the <u>Open Government Licence</u>, which gives users various freedoms about how they choose to use the data, subject to conditions.

The files are provided as a Comma Separated Values file, with double quote (") text delimiters where applicable.

Revision Note



Coverage availability

File name: 201905_mobile_laua_r01.csv

Total records in file: 1 header row, 391 data rows

File size on disk: 232 KB (237,568 bytes)

Column headers and what they represent

Field	Label	Note
laua	Lower tier authority	Local and Unitary Authority Codes, such as
		E07000114
laua_name	Lower tier authority name	Local and Unitary
		Authority Names
2G_prem_out_0	2G services, premises (outdoor): no reliable signal (%)	Threshold:-81dBm
2G_prem_out_1	2G services, premises (outdoor): signal from 1 operator (%)	Threshold:-81dBm
2G_prem_out_2	2G services, premises (outdoor): signal from 2 operators (%)	Threshold:-81dBm
2G_prem_out_3	2G services, premises (outdoor): signal from all operators (%)	Threshold:-81dBm
2G_prem_in_0	2G services, premises (indoor): no reliable signal (%)	Threshold:-71dBm
2G_prem_in_1	2G services, premises (indoor): signal from 1 operator (%)	Threshold:-71dBm
2G_prem_in_2	2G services, premises (indoor): signal from 2 operators (%)	Threshold:-71dBm
2G_prem_in_3	2G services, premises (indoor): signal from all operators (%)	Threshold:-71dBm
2G_geo_out_0	2G services, geographic (outdoor): no reliable signal (%)	Threshold:-81dBm



2G_geo_out_1	2G services, geographic (outdoor): signal Threshold:-81dBm from 1 operator (%)	
2G_geo_out_2	2G services, geographic (outdoor): signal from 2 operators (%)	Threshold:-81dBm
2G_geo_out_3	2G services, geographic (outdoor): signal from all operators (%)	Threshold:-81dBm
2G_abrd_in_0	2G services, roads: no reliable signal (%)	Threshold:-71dBm
2G_abrd_in_1	2G services, roads: signal from 1 operator (%)	Threshold:-71dBm
2G_abrd_in_2	2G services, roads: signal from 2 operators (%)	Threshold:-71dBm
2G_abrd_in_3	2G services, roads: signal from all operators (%)	Threshold:-71dBm
2G_mway_in_0	2G services, motorways: no reliable signal (%)	Threshold:-71dBm
2G_mway_in_1	2G services, motorways: signal from 1 operator (%)	Threshold:-71dBm
2G_mway_in_2	2G services, motorways: signal from 2 operators (%)	Threshold:-71dBm
2G_mway _in_3	2G services, motorways: signal from all operators (%)	Threshold:-71dBm
3G_prem_out_0	3G services, premises (outdoor): no reliable signal (%)	Threshold:-100dBm
3G_prem_out_1	3G services, premises (outdoor): signal from 1 operator (%)	Threshold:-100dBm
3G_prem_out_2	3G services, premises (outdoor): signal from 2 operators (%)	Threshold:-100dBm
3G_prem_out_3	3G services, premises (outdoor): signal from 3 operators (%)	Threshold:-100dBm
3G_prem_out_4	3G services, premises (outdoor): signal from all operators (%)	Threshold:-100dBm



3G_prem_in_0	3G services, premises (indoor): no reliable signal (%)	Threshold:-90dBm
3G_prem_in_1	3G services, premises (indoor): signal from 1 operator (%)	Threshold:-90dBm
3G_prem_in_2	3G services, premises (indoor): signal from 2 operators (%)	Threshold:-90dBm
3G_prem_in_3	3G services, premises (indoor): signal from 3 operators (%)	Threshold:-90dBm
3G_prem_in_4	3G services, premises (indoor): signal from all operators (%)	Threshold:-90dBm
3G_geo_out_0	3G services, geographic (outdoor): no reliable signal (%)	Threshold:-100dBm
3G_geo_out_1	3G services, geographic (outdoor): signal from 1 operator (%)	Threshold:-100dBm
3G_geo_out_2	3G services, geographic (outdoor): signal from 2 operators (%)	Threshold:-100dBm
3G_geo_out_3	3G services, geographic (outdoor): signal from 3 operators (%)	Threshold:-100dBm
3G_geo_out_4	3G services, geographic (outdoor): signal from all operators (%)	Threshold:-100dBm
3G_abrd_in_0	3G services, roads: no reliable signal (%)	Threshold:-90dBm
3G_abrd_in_1	3G services, roads: signal from 1 operator (%)	Threshold:-90dBm
3G_abrd_in_2	3G services, roads: signal from 2 operators (%)	Threshold:-90dBm
3G_abrd_in_3	3G services, roads: signal from 3 operators (%)	Threshold:-90dBm
3G_abrd_in_4	3G services, roads: signal from all operators (%)	Threshold:-90dBm
3G_mway_in_0	3G services, motorways: no reliable signal (%)	Threshold:-90dBm



2C comices meta-marks 15	Three helds 00-ID	
3G services, motorways: signal from 1 Threshold:-90dBm operator (%)		
3G services, motorways: signal from 2 operators (%)	Threshold:-90dBm	
3G services, motorways: signal from 3 operators (%)	Threshold:-90dBm	
3G services, motorways: signal from all operators (%)	Threshold:-90dBm	
4G services, premises (outdoor): no reliable signal (%)	Threshold:-105dBm	
4G services, premises (outdoor): signal from 1 operator (%)	Threshold:-105dBm	
4G services, premises (outdoor): signal from 2 operators (%)	Threshold:-105dBm	
4G services, premises (outdoor): signal from 3 operators (%)	Threshold:-105dBm	
4G services, premises (outdoor): signal from all operators (%)	Threshold:-105dBm	
4G services, geographic (indoor): no reliable signal (%)	Threshold:-95dBm	
4G services, geographic (indoor): signal from 1 operator (%)	Threshold:-95dBm	
4G services, geographic (indoor): signal from 2 operators (%)	Threshold:-95dBm	
4G services, geographic (indoor): signal from 3 operators (%)	Threshold:-95dBm	
4G services, geographic (indoor): signal from all operators (%)	Threshold:-95dBm	
4G services, geographic (outdoor): no reliable signal (%)	Threshold:-105dBm	
4G services, geographic (outdoor): signal from 1 operator (%)	Threshold:-105dBm	
	3G services, motorways: signal from 2 operators (%) 3G services, motorways: signal from 3 operators (%) 3G services, motorways: signal from all operators (%) 4G services, premises (outdoor): no reliable signal (%) 4G services, premises (outdoor): signal from 1 operator (%) 4G services, premises (outdoor): signal from 2 operators (%) 4G services, premises (outdoor): signal from 3 operators (%) 4G services, premises (outdoor): signal from all operators (%) 4G services, geographic (indoor): no reliable signal (%) 4G services, geographic (indoor): signal from 1 operator (%) 4G services, geographic (indoor): signal from 2 operators (%) 4G services, geographic (indoor): signal from 3 operators (%) 4G services, geographic (indoor): signal from 3 operators (%) 4G services, geographic (indoor): signal from all operators (%) 4G services, geographic (indoor): signal from all operators (%) 4G services, geographic (outdoor): no reliable signal (%) 4G services, geographic (outdoor): signal	



4G_geo_out_2	4G services, geographic (outdoor): signal from 2 operators (%)	Threshold:-105dBm
4G_geo_out_3	4G services, geographic (outdoor): signal from 3 operators (%)	Threshold:-105dBm
4G_geo_out_4	4G services, geographic (outdoor): signal from all operators (%)	Threshold:-105dBm
4G_abrd_in_0	4G services, roads: no reliable signal (%)	Threshold:-95dBm
4G_abrd_in_1	4G services, roads: signal from 1 operator (%)	Threshold:-95dBm
4G_abrd_in_2	4G services, roads: signal from 2 operators (%)	Threshold:-95dBm
4G_abrd_in_3	4G services, roads: signal from 3 operators (%)	Threshold:-95dBm
4G_abrd_in_4	4G services, roads: signal from all operators (%)	Threshold:-95dBm
4G_mway_in_0	4G services, motorways: no reliable signal (%)	Threshold:-95dBm
4G_mway_in_1	4G services, motorways: signal from 1 operator (%)	Threshold:-95dBm
4G_mway_in_2	4G services, motorways: signal from 2 operators (%)	Threshold:-95dBm
4G_mway _in_3	4G services, motorways: signal from 3 operators (%)	Threshold:-95dBm
4G_mway _in_4	4G services, motorways: signal from all operators (%)	Threshold:-95dBm
Voice_prem_out_0	Voice services, premises (outdoor): no reliable signal (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_out_1	Voice services, premises (outdoor): signal from 1 operator (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_out_2	Voice services, premises (outdoor): signal from 2 operators (%)	See below for 2G, 3G, 4G threshold levels



Voice_prem_out_3	Voice services, premises (outdoor): signal	See below for 2G, 3G, 4G
	from 3 operators (%)	threshold levels
	, , , ,	
Voice_prem_out_4	Voice services, premises (outdoor): signal	See below for 2G, 3G, 4G
	from all operators (%)	threshold levels
Voice_prem_in_0	Voice services, geographic (indoor): no	See below for 2G, 3G, 4G
voice_prem_m_o	reliable signal (%)	threshold levels
	Teliable signal (70)	tillesiloid leveis
Voice_prem_in_1	Voice services, geographic (indoor): signal	See below for 2G, 3G, 4G
	from 1 operator (%)	threshold levels
Voice_prem_in_2	Voice services, geographic (indoor): signal	See below for 2G, 3G, 4G
	from 2 operators (%)	threshold levels
Voice_prem_in_3	Voice services, geographic (indoor): signal	See below for 2G, 3G, 4G
Voice_prem_m_s	from 3 operators (%)	threshold levels
	nom's operators (%)	threshold levels
Voice_prem_in_4	Voice services, geographic (indoor): signal	See below for 2G, 3G, 4G
	from all operators (%)	threshold levels
		0 1 1 6 00 00 10
Voice_geo_out_0	Voice services, geographic (outdoor): no	See below for 2G, 3G, 4G
	reliable signal (%)	threshold levels
Voice_geo_out_1	Voice services, geographic (outdoor): signal	See below for 2G, 3G, 4G
	from 1 operator (%)	threshold levels
	, , ,	
Voice_geo_out_2	Voice services, geographic (outdoor): signal	See below for 2G, 3G, 4G
	from 2 operators (%)	threshold levels
Voice goo out 2	Voice services, geographic (outdoor): signal	See below for 2G, 3G, 4G
Voice_geo_out_3	from 3 operators (%)	threshold levels
	Hom 3 operators (%)	tillesiloid levels
Voice_geo_out_4	Voice services, geographic (outdoor): signal	See below for 2G, 3G, 4G
	from all operators (%)	threshold levels
Voice_abrd_in_0	Voice services, roads: no reliable signal (%)	See below for 2G, 3G, 4G
		threshold levels
Voice_abrd_in_1	Voice services, roads: signal from 1 operator	See below for 2G, 3G, 4G
. 5.66_65.6	(%)	threshold levels
	(1-7)	conord revers
Voice_abrd_in_2	Voice services, roads: signal from 2	See below for 2G, 3G, 4G
	operators (%)	threshold levels
Malaa shulii 2	Weign complete stands of the Control	Con halos (1) 20 20 42
Voice_abrd_in_3	Voice services, roads: signal from 3	See below for 2G, 3G, 4G
	operators (%)	threshold levels



Voice_abrd_in_4	Voice services, roads: signal from all	See below for 2G, 3G, 4G
	operators (%)	threshold levels
Voice_mway_in_0	Voice services, motorways: no reliable signal	See below for 2G, 3G, 4G
voice_iniway_in_o	(%)	threshold levels
	(70)	till estiola levels
Voice_mway_in_1	Voice services, motorways: signal from 1	See below for 2G, 3G, 4G
	operator (%)	threshold levels
Voice_mway_in_2	Voice services, motorways: signal from 2	See below for 2G, 3G, 4G
voice_inivay_in_z	operators (%)	threshold levels
	operators (76)	till estiblia levels
Voice_mway _in_3	Voice services, motorways: signal from 3	See below for 2G, 3G, 4G
	operators (%)	threshold levels
Voice_mway _in_4	Voice services, motorways: signal from all	See below for 2G, 3G, 4G
VOICE_IIIWay _III_4	operators (%)	threshold levels
	operators (76)	till estiblia levels
Data_prem_out_0	Data services, premises (outdoor): no	See below for 3G, 4G
	reliable signal (%)	threshold levels
Data prom out 1	Data services, premises (outdoor): signal	See below for 3G, 4G
Data_prem_out_1		threshold levels
	from 1 operator (%)	threshold levels
Data_prem_out_2	Data services, premises (outdoor): signal	See below for 3G, 4G
	from 2 operators (%)	threshold levels
Data_prem_out_3	Data services, premises (outdoor): signal	See below for 3G, 4G
_,	from 3 operators (%)	threshold levels
Data_prem_out_4	Data services, premises (outdoor): signal	See below for 3G, 4G
	from all operators (%)	threshold levels
Data_prem_in_0	Data services, geographic (indoor): no	See below for 3G, 4G
_,	reliable signal (%)	threshold levels
Data_prem_in_1	Data services, geographic (indoor): signal	See below for 3G, 4G
	from 1 operator (%)	threshold levels
Data_prem_in_2	Data services, geographic (indoor): signal	See below for 3G, 4G
	from 2 operators (%)	threshold levels
Data_prem_in_3	Data services, geographic (indoor): signal	See below for 3G, 4G
	from 3 operators (%)	threshold levels
	nom s operators (70)	
Data_prem_in_4	Data services, geographic (indoor): signal	See below for 3G, 4G



Data_geo_out_0	Data services, geographic (outdoor): no	See below for 3G, 4G
	reliable signal (%)	threshold levels
Data_geo_out_1	Data services, geographic (outdoor): signal	See below for 3G, 4G
	from 1 operator (%)	threshold levels
	2 operator (/e/	
Data_geo_out_2	Data services, geographic (outdoor): signal	See below for 3G, 4G
	from 2 operators (%)	threshold levels
Data_geo_out_3	Data services, geographic (outdoor): signal	See below for 3G, 4G
Data_geo_out_5	from 3 operators (%)	threshold levels
	Hom 3 operators (70)	till estiola levels
Data_geo_out_4	Data services, geographic (outdoor): signal	See below for 3G, 4G
	from all operators (%)	threshold levels
Data abad in O		Can halaw fam 20, 40
Data_abrd_in_0	Data services, roads: no reliable signal (%)	See below for 3G, 4G
		threshold levels
Data_abrd_in_1	Data services, roads: signal from 1 operator	See below for 3G, 4G
	(%)	threshold levels
Data_abrd_in_2	Data services, roads: signal from 2 operators	See below for 3G, 4G
	(%)	threshold levels
Data_abrd_in_3	Data services, roads: signal from 3 operators	See below for 3G, 4G
	(%)	threshold levels
	V 7	
Data_abrd_in_4	Data services, roads: signal from all	See below for 3G, 4G
	operators (%)	threshold levels
Data_mway_in_0	Data services, motorways: no reliable signal	See below for 3G, 4G
Data_mway_m_o	(%)	threshold levels
	(70)	threshold levels
Data_mway_in_1	Data services, motorways: signal from 1	See below for 3G, 4G
	operator (%)	threshold levels
Data	Data comicae material signal from 2	Con halour for 2C, 4C
Data_mway_in_2	Data services, motorways: signal from 2	See below for 3G, 4G
	operators (%)	threshold levels
Data_mway_in_3	Data services, motorways: signal from 3	See below for 3G, 4G
_ · 	operators (%)	threshold levels
Data_mway_in_4	Voice services, motorways: signal from all	See below for 3G, 4G
	operators (%)	threshold levels
2G_mway_ard_in_0	2G services, motorways and A-roads: no	Threshold:-71dBm
	reliable signal (%)	THE CONTOUR / LUDIN
	. 5	



reliable signal (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: signal from 1 operator (%) threshold levels threshold levels			
from 2 operators (%) 2G_mway_ard_in_3 2G services, motorways and A-roads: signal from all operators (%) 3G_mway_ard_in_0 3G services, motorways and A-roads: no reliable signal (%) 3G_mway_ard_in_1 3G services, motorways and A-roads: signal from 1 operator (%) 3G_mway_ard_in_2 3G services, motorways and A-roads: signal from 2 operators (%) 3G_mway_ard_in_3 3G services, motorways and A-roads: signal from 3 operators (%) 3G_mway_ard_in_4 3G services, motorways and A-roads: signal from all operators (%) 4G_mway_ard_in_0 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_1 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_2 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_3 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_3 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_5 4G services, motorways and A-roads: signal from all operators (%) Voice_mway_ard_in_0 Voice services, motorways and A-roads: signal from 3 operators (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice_services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels	2G_mway_ard_in_1	_	Threshold:-71dBm
from all operators (%) 3G_mway_ard_in_0 3G services, motorways and A-roads: no reliable signal (%) 3G_mway_ard_in_1 3G services, motorways and A-roads: signal from 1 operator (%) 3G_mway_ard_in_2 3G services, motorways and A-roads: signal from 2 operators (%) 3G_mway_ard_in_3 3G services, motorways and A-roads: signal from 3 operators (%) 3G_mway_ard_in_4 3G services, motorways and A-roads: signal from all operators (%) 4G_mway_ard_in_0 4G services, motorways and A-roads: no reliable signal from 1 operator (%) 4G_mway_ard_in_1 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_2 4G services, motorways and A-roads: signal from 2 operators (%) 4G_mway_ard_in_2 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_3 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_0 Voice_mway_ard_in_0 Voice services, motorways and A-roads: no reliable signal (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: on See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels	2G_mway_ard_in_2	,	Threshold:-71dBm
reliable signal (%) 3G_mway_ard_in_1 3G services, motorways and A-roads: signal from 1 operator (%) 3G_mway_ard_in_2 3G services, motorways and A-roads: signal from 2 operators (%) 3G_mway_ard_in_3 3G services, motorways and A-roads: signal from 3 operators (%) 3G_mway_ard_in_4 3G services, motorways and A-roads: signal from all operators (%) 4G_mway_ard_in_0 4G services, motorways and A-roads: no reliable signal (%) 4G_mway_ard_in_1 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_2 4G services, motorways and A-roads: signal from 2 operators (%) 4G_mway_ard_in_3 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from 3 operators (%) Voice_mway_ard_in_4 4G services, motorways and A-roads: signal from all operators (%) Voice_mway_ard_in_0 Voice services, motorways and A-roads: no reliable signal (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels	2G_mway_ard_in_3	1	Threshold:-71dBm
from 1 operator (%) 3G_mway_ard_in_2 3G services, motorways and A-roads: signal from 2 operators (%) 3G_mway_ard_in_3 3G services, motorways and A-roads: signal from 3 operators (%) 3G_mway_ard_in_4 3G services, motorways and A-roads: signal from all operators (%) 4G_mway_ard_in_0 4G services, motorways and A-roads: no reliable signal (%) 4G_mway_ard_in_1 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_2 4G services, motorways and A-roads: signal from 2 operators (%) 4G_mway_ard_in_3 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 5G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 5G services, motorways and A-roads: signal from 3 operators (%) Voice_mway_ard_in_0 Voice services, motorways and A-roads: no reliable signal (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels	3G_mway_ard_in_0	•	Threshold:-90dBm
from 2 operators (%) 3G_mway_ard_in_3 3G services, motorways and A-roads: signal from 3 operators (%) 3G_mway_ard_in_4 3G services, motorways and A-roads: signal from all operators (%) 4G_mway_ard_in_0 4G services, motorways and A-roads: no reliable signal (%) 4G_mway_ard_in_1 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_2 4G services, motorways and A-roads: signal from 2 operators (%) 4G_mway_ard_in_3 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from all operators (%) Voice_mway_ard_in_0 Voice services, motorways and A-roads: no reliable signal (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels	3G_mway_ard_in_1		Threshold:-90dBm
from 3 operators (%) 3G_mway_ard_in_4 3G_services, motorways and A-roads: signal from all operators (%) 4G_mway_ard_in_0 4G_services, motorways and A-roads: no reliable signal (%) 4G_mway_ard_in_1 4G_services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_2 4G_services, motorways and A-roads: signal from 2 operators (%) 4G_mway_ard_in_3 4G_services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G_services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G_services, motorways and A-roads: signal from all operators (%) Voice_mway_ard_in_0 Voice_services, motorways and A-roads: no reliable signal (%) Voice_mway_ard_in_1 Voice_services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice_services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice_services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels	3G_mway_ard_in_2	_	Threshold:-90dBm
from all operators (%) 4G_mway_ard_in_0 4G services, motorways and A-roads: no reliable signal (%) 4G_mway_ard_in_1 4G services, motorways and A-roads: signal from 1 operator (%) 4G_mway_ard_in_2 4G services, motorways and A-roads: signal from 2 operators (%) 4G_mway_ard_in_3 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from all operators (%) Voice_mway_ard_in_0 Voice services, motorways and A-roads: no reliable signal (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels	3G_mway_ard_in_3		Threshold:-90dBm
reliable signal (%) 4G_mway_ard_in_1	3G_mway_ard_in_4	_	Threshold:-90dBm
from 1 operator (%) 4G_mway_ard_in_2	4G_mway_ard_in_0	•	Threshold:-95dBm
from 2 operators (%) 4G_mway_ard_in_3 4G services, motorways and A-roads: signal from 3 operators (%) 4G_mway_ard_in_4 4G services, motorways and A-roads: signal from all operators (%) Voice_mway_ard_in_0 Voice services, motorways and A-roads: no reliable signal (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels	4G_mway_ard_in_1	_	Threshold:-95dBm
from 3 operators (%) 4G_mway_ard_in_4	4G_mway_ard_in_2	<u> </u>	Threshold:-95dBm
from all operators (%) Voice_mway_ard_in_0 Voice services, motorways and A-roads: no reliable signal (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_1 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G	4G_mway_ard_in_3	_	Threshold:-95dBm
reliable signal (%) Voice_mway_ard_in_1 Voice services, motorways and A-roads: signal from 1 operator (%) Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G threshold levels See below for 2G, 3G, 4G	4G_mway_ard_in_4	_	Threshold:-95dBm
signal from 1 operator (%) threshold levels Voice_mway_ard_in_2 Voice services, motorways and A-roads: See below for 2G, 3G, 4G	Voice_mway_ard_in_0		See below for 2G, 3G, 4G threshold levels
	Voice_mway_ard_in_1		See below for 2G, 3G, 4G threshold levels
	Voice_mway_ard_in_2	•	See below for 2G, 3G, 4G threshold levels



Voice_mway_ard_in_3	Voice services, motorways and A-roads: signal from 3 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_mway_ard_in_4	Voice services, motorways and A-roads: signal from all operators (%)	See below for 2G, 3G, 4G threshold levels
Data_mway_ard_in_0	Data services, motorways and A-roads: no reliable signal (%)	See below for 3G, 4G threshold levels
Data_mway_ard_in_1	Data services, motorways and A-roads: signal from 1 operator (%)	See below for 3G, 4G threshold levels
Data_mway_ard_in_2	Data services, motorways and A-roads: signal from 2 operators (%)	See below for 3G, 4G threshold levels
Data_mway_ard_in_3	Data services, motorways and A-roads: signal from 3 operators (%)	See below for 3G, 4G threshold levels
Data_mway_ard_in_4	Data services, motorways and A-roads: signal from all operators (%)	See below for 3G, 4G threshold levels

Signal thresholds

We use the following signal strength thresholds when estimating coverage:

Service		Metric	Outdoor	Indoor and in-car
2G		RxLev	-81dBm	-71dBm
3G		RSCP CPiCH	-100dBm	-90dBm
4G Voice		RSRP	-105dBm	-95dBm
4G Data		RSRP	-115dBm	-105dBm
Voice:	2G	RxLev	-81dBm	-71dBm
	3G	RSCP CPiCH	-100dBm	-90dBm
	4G	RSRP	-105dBm	-95dBm
Data:	3G	RSCP CPiCH	-100dBm	-90dBm
	4G	RSRP	-115dBm	-105dBm