

Termination Rates Benchmark Snapshot (as of July 2014)

Integrated Report on Mobile Termination Rates & SMS Termination Rates

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1. Introduction

The BEREC Integrated Report on Termination Rates in Europe provides an overview of Mobile Termination Rates (MTRs) and SMS Termination Rates (SMS TRs) per country based upon the results of a request for information sent to all NRAs, referring to data as of 1st July 2014.

Therefore, the aim of this report is to offer a picture of current interconnection and termination prices for mobile calls and SMS in Europe.

Regarding the monitoring of MTRs, BEREC continues the work started by ERG in 2004 with an overview report carried out twice a year. Regarding the monitoring of SMS TRs, BEREC started its own data collection in 2011 with the aim of facilitating this benchmarking comparison among NRAs.

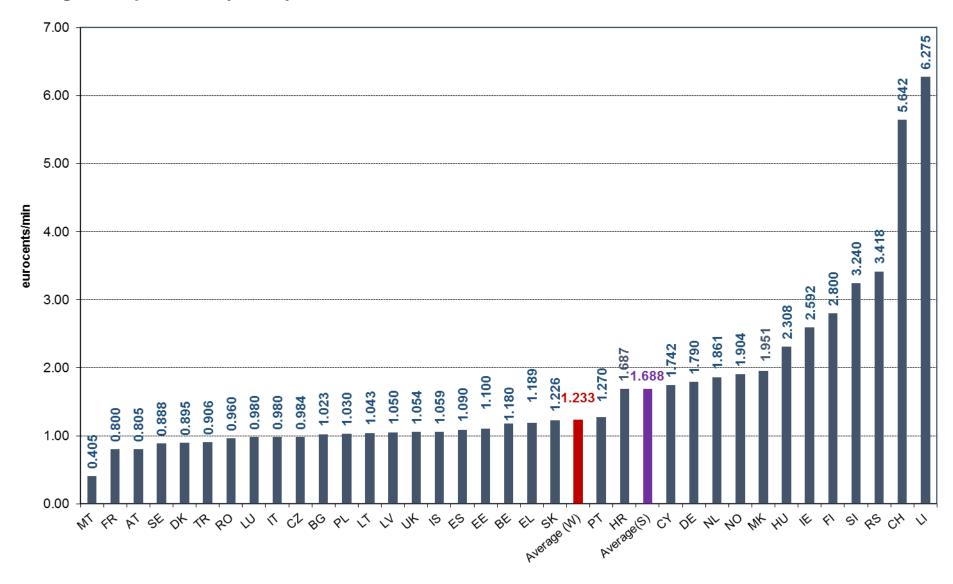
As of July 2014, this is the situation regarding Termination Rates in Europe:

- MTR simple average A(s) for the EU stands at 1.69 eurocents per minute, whereas EU weighted average A(w) is estimated at 1.23 eurocents per minute.
- Domestic SMS TR EU A(s) is 2.19 eurocents per SMS, whereas A(w) is reported to be 2.02 eurocents per SMS.

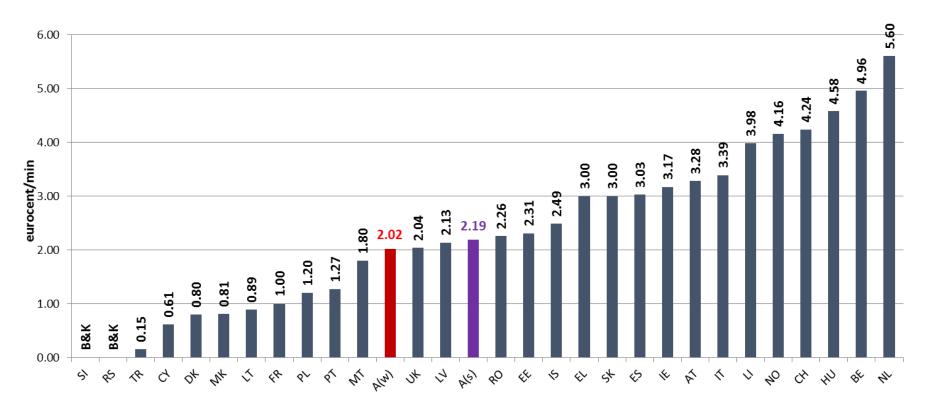
For non-euro countries, the average exchange rate for the second quarter of the year (Q2 2014) was used for the calculation of MTRs and SMS TRs. The exchange rates used are reported in the Annex (V.2).

2. Graphs

Average MTR per country – July 2014



SMS TR per country – July 2014



3. MTR

Assumptions

For the present European benchmark the following assumptions have been made in order to make tariffs comparable¹:

- Most countries do not differentiate between MTRs for fixed-to-mobile and mobile-to-mobile. For countries that differentiate, fixed-to-mobile charges have been used.
- Operators with a market share below 1.5% have been excluded from the MTR average calculation.
- Only nominal tariffs are represented in the report, defining them as "The price (in eurocents/minute) set out by the regulator that represents the maximum price per minute which operators may charge each other (without any adjustment for purchasing power parity or real effects inflation)."
- Average MTRs per country have been obtained by weighting the average MTR of each operator by its market share, measured in terms of subscribers. Two general averages at the European level have been calculated: a simple average and a weighted average, the latter weighting each country's average with the share of the country's subscribers (total subscribers per country/total subscribers in all countries). In the case of the weighted average, only the countries that reported the number of subscribers are taken into account.
- The VAT is not included in the revenues.
- For non-Euro countries, the average exchange rate for the second quarter of the year, Q2 2014, was used for the calculation of the MTR. The exchange rates used are reported in the Annex.

Regarding the short-term MTRs evolution (from January 2014 to July 2014), some results of the variation may be a consequence of any the following reasons:

- modifications in the tariff structure (for instance, disappearance of the set-up charge or initial period);
- currency exchange rates variations in non-Euro countries²;
- changes in operators' market shares may have an effect on the average MTR for an individual country;
- inclusion of new operators that were not present in the previous benchmarks.

¹ Generally speaking, these assumptions may create margins of error in the present comparison, making it difficult to draw valid conclusions for policy purposes.

² This only affects short-term MTR evolution (graph 7) because the percentage of tariff variation in each country (graph 8) has been calculated by comparing rates expressed in terms of the national currency.

TABLE 1: Average MTR per country as of July 2014 (nominal rates per voice minute)

Country	Average MTR per country
AT	(€cent) 0.8049
BE	1.1800
BG	1.0226
CH	5.6424
CY	1.7416
CZ	0.9837
DE	1.7900
DK	0.8951
EE	1.1000
EL	1.1890
ES	1.0900
FI	2.8000
FR	0.8000
HR	1.6870
HU	2.3079
IE	2.6000
IS	1.0590
IT	0.9800
LI	6.2760
LT	1.0426
LU	0.9800
LV	1.0500
MK	1.9512
MT	0.4045
NL	1.8610
NO	1.9040
PL	1.0296
PT	1.2700
RO	0.9600
RS	3.4175
SE	0.8882
SI	3.2400
SK	1.2260
TR	0.9063
UK	1.0543
Average (S)	1.6878
Average (W)	1.2334
Average (W)	1.2334

Note to Table 1:

- the Weighted Average (W) is calculated taking into account only countries providing the total number of subscribers
- there are no countries that differentiate between peak and off-peak

TABLE 2: Average MTR per operator as of July 2014

There are a number of countries where information regarding the number of subscribers and/or market share has been declared as confidential data and for this reason this report does not publish this data. Nevertheless, market shares have been taken into account for the average MTR calculations.

	TABLE 2	Average effective	Subscribers	Country	Market Share
		prices		total	%
Country	Operator	(€cent)		subscribers	10.100/
	A1Telekom Austria	0.8049	5,710,000		43.13%
AT	T-Mobile	0.8049	4,110,000	13,240,000	31.04%
	H3G (including Orange)	0.8049	3,420,000	, ,	25.83%
	Belgacom	1.1800	confidential		40.59%
BE ³	Mobistar	1.1800	confidential	confidential	28.28%
	Base	1.1800	confidential		23.51%
	Mobiltel	1.0226	confidential		38.6%
BG	Cosmo Bulgaria Mobile	1.0226	confidential	confidential	39.0%
	BTC	1.0226	confidential		22.5%
	Swisscom	5.1263	6,460,000		58.06%
CH	Sunrise	6.3566	2,487,300	11,127,300	22.35%
	Orange	6.3566	2,180,000		19.59%
	Primetel PLC	2.9090	30,094		2.72%
CY	MTN	1.7090	330,521	1,107,507	29.84%
	CYTA	1.7090	746,892		67.44%
	T-Mobile	0.9837	confidential	confidential	40.45%
CZ	O2 Czech Republic a.s.	0.9837	confidential		36.28%
	Vodafone	0.9837	confidential		20.41%
	T-Mobile	1.7900	39,337,000	116,557,000	33.75%
DE ⁴	Vodafone	1.7900	31,939,000		27.40%
DE	E-plus	1.7900	25,845,000		22.17%
	O2 Telefónica	1.7900	19,436,000		16.68%
	TDC	0.8951	3,008,522		45.56%
DIC	Telia	0.8951	1,284,406	6,603,212	19.45%
DK	Telenor	0.8951	1,668,697		25.27%
	Hi3G	0.8951	641,587		9.72%
	AS EMT	1.1000	874,123		42.95%
EE	Elisa Eesti AS	1.1000	647,453	2,035,153	31.81%
	Tele2 Eesti AS	1.1000	513,577	2,000,100	25.24%
	Cosmote	1.1890	confidential		confidential
EL ⁵	Vodafone	1.1890	confidential	12.976.604	confidential
	Wind	1.1890	confidential		confidential
ES	TME	1.0900	16.463.062	50.707.659	32.5%

³ BE: Nominal prices, subscriber data as of the 1st of October 2013

⁴ DE: Number of subscribers are for 2nd quarter 2014

⁵ EL: Data refers to active subscribers

	Vodafone	1.0900	11.491.783		22,7%
	Orange	1.0900	11.460.559		22.6%
	Xfera	1.0900	3.392.437		6.7%
	Other (MVNOs)	1.0900	7.899.818		15.6%
	DNA	2.8000	n.a.		24.0%
	Elisa	2.8000	n.a.		40.0%
FI		2.8000		n.a.	35.0%
	TeliaSonera		n.a.		
	ÅMT	2.8000	n.a.		n.a.
	Orange	0.8000	confidential		confidential
	SFR	0.8000	confidential		confidential
	Bouygues Telecom	0.8000	confidential	75,705,000	confidential
FR	Free Mobile	0.8000	confidential		confidential
	MNVOs	0.8000	confidential		confidential
	HT	1.6810	2,142,160		46.61%
HR	VIPnet	1.6810	1,634,855	4,596,271	35.57%
	Tele2	1.6810	819,256	, ,	17.82%
	T-Mobile	2.3079	5,346,509		46.33%
HU	Telenor	2.3079	3,580,880	11,540,058	31.03%
110	Vodafone	2.3079	2,612,669	. 1,0 10,000	22.64%
	Hutchinson 3G Ireland	2.6000	1,564,884		32.8%
	Lycamobile Ireland	2.6000	149,246		3.1%
ΙE	Meteor	2.6000	977,138	4,767,999	20.5%
	Tesco Ireland	2.6000	240,314	1,7 07,000	5.0%
	Vodafone Ireland	2.6000	1,821,346		38.2%
	Siminn	1.0590	126,022		35.56%
	Vodafone	1.0590	98,605		27.82%
IS	Nova	1.0590	113,218	354,391	31.95%
	Tal	1.0590	15,896		4.49%
	Telecom Italia	0.9800	30,995,890		34.76%
	Vodafone Omnitel	0.9800	26,450,401		29.66%
IT ⁶	Wind Telecomunicazioni	0.9800	21,889,141	89,173,365	24.55%
	S.p.A.		0.007.000		44.000/
	H3G S.p.A.	0.9800	9,837,933	a and the late of the f	11.03%
	Orange (Liechtenstein) AG	6.2750	confidential	confidential	confidential
	Mobilkom (Liechtenstein) AG Swisscom (Schweiz) AG	6.2750 6.2750	confidential confidential		confidential confidential
LI	` '				
	Tele2	1.0426	1,896,163		42.56%
LT ⁷	Omnitel	1.0426	1,545,598	4,502,527	34.69%
	Bitė Lietuva	1.0426	1,010,737		22.88%
	EPT	0.9800	n.a.		53.00%
LU	Tango	0.9800	n.a.	n.a.	31.00%
	Orange	0.9800	n.a.		16.00%
	Latvijas Mobilais Telefons	1.0500	1,852,121		49.47%
LV	Tele2	1.0500	1,039,844	3,744,046	27.77%
LV	Bite Latvija	1.0500	498,745	5,744,040	13.32%
	Zetcom	1.0500	353,336		9.44%

 $^{^{\}rm 6}$ IT: The tariffs from 1/7/2014 are not decided yet $^{\rm 7}$ LT: Data for 2014 IQ and 2014 IIQ

	T Mobile Macedonia	1.9512	1,033,488		46.10%
MK	ONE Telecommunication services	1.9512	562,249	2,241,608	25.08%
	VIP Macedonia	1.9512	618,314	<u> </u>	27.58%
	Go plc	0.4045	210,173		39.30%
	Melita plc	0.4045	77,680		14.53%
	Vodafone	0.4045	236,440		44.22%
MT ⁸	Redtouch fone	0.4045	10,401	534,744	1.95%
	KPN	1.8610	6,018,359		30.89%
	Vodafone	1.8610	4,953,009		25.42%
NL ⁹	T-Mobile	1.8610	4,331,259	19,485,055	22.23%
	all MVNO/SP	1.8610	4182428.00		21.46%
	Telenor	1.9040	2,960,832		50.50%
	NetCom	1.9040	1,366,087		23.30%
NO	Network Norway	1.9040	656,660	5,511,252	11.20%
	Tele2	1.9040	398,686		6.80%
	Ventolo	1.9040	128,987		2.20%
	T-Mobile Polska S.A.	1.0296	confidential		27.00%
	Polkomtel sp. z o.o.	1.0296	confidential		24.80%
PL^{10}	Orange Polska S.A.	1.0296	confidential	56,972,803	26.90%
	P4. sp. z o.o.	1.0296	confidential		18.80%
	Others	1.0296	confidential		2.50%
	MEO (ex-TMN)	1.2700	confidential		47.55%
PT	VODAFONE	1.2700	confidential	16,231,557	36.22%
PI	NOS (ex-OPTIMUS+ZON)	1.2700	confidential		16.23%
	Vodafone Romania	0.9600	confidential		28.82%
	Orange Romania	0.9600	confidential	confidential	43.95%
RO	Cosmote	0.9600	confidential		22.34%
	RCS & RDS	0.9600	confidential		4.89%
	MTS (Telekom Srbija)	3.4175	n.a.		44.8%
RS ¹¹	Telenor	3.4175	n.a.	n.a.	33.3%
	Vip mobile	3.4175	n.a.		21.9%
	TeliaSonera	0.8882	4,689,000		41.12%
SE	Tele2	0.8882	3,517,700	11 102 500	30.85%
3E	Telenor	0.8882	1,990,700	11,403,500	17.46%
	Hi3G	0.8882	1,206,100		10.58%
	Telekom Slovenije	3.2400	confidential		54.93%
SI	Si.mobil	3.2400	confidential	confidential	29.43%
	Tušmobil	3.2400	confidential	Comidential	12.94%
	T-2	3.2400	confidential		2.70%
SK	Orange	1.2260	confidential	confidential	39.90%

⁸ MT: Subscriber figures reflect position as at Q1 2014. MTR rate applicable from 1st April 2014 and is based on pure BU LRIC 9 NL: Data based on Q1 2014 data

¹⁰ PL: Data as of 31st of December 2013

¹¹ RS: Provided market shares are for 2013. Presented price is valid as of 01/01/2014

	Slovak Telekom	1.2260	confidential		32.12%
	Telefónica	1.2260	confidential		27.97%
	Turkcell	0.8630	34,635,364		48.93%
TR	Vodafone	0.8906	20,372,220	70,791,070	28.78%
	Avea	1.0218	15,783,486		22.30%
	EE	1.0543	confidential		confidential
LUZ	Telefonica	1.0543	confidential	83,054,428	27.97% 48.93% 28.78% 22.30%
UK	Vodafone	1.0543	confidential		confidential
	H3G	1.0543	confidential		confidential

4. SMS TR

Assumptions

- The SMS TRs collected in this report reflect nominal wholesale rates applied among domestic¹² operators for an off-net SMS exchange, excluding VAT¹³.
- Average SMS tariffs per country are obtained by weighting the SMS tariff of each operator according to its market share, measured in terms of subscribers (instead of in terms of volumes of text messages)¹⁴.
- Two European averages are calculated: a simple average and a weighted average.
 The latter weights each country's average with the share of the country's subscribers¹⁵.
- In some countries, SMS wholesale rates are considered to be confidential information. SMS TRs of those countries are taken into account to calculate the weighted average, but the TRs are not shown in the figures.
- No countries differentiate between peak time, off-peak time and weekend hours; therefore, there is no need to calculate an individual (i.e. per operator) average tariff weighting peak and off-peak traffic.
- The price for SMS termination is related to each delivered domestic off-net SMS; therefore, no assumption is necessary about set-up charges or average call durations. Slovenia and Serbia are the only countries where "Bill & Keep" agreements are in place for traffic between all domestic operators.
- In some countries, operators have bilateral contract agreements implying different rates depending on the volume of SMSs sent across the two networks. These nonlinear outlays imply different average rates depending on the volume of SMS exchanged. In this case, the lowest average rate expected (corresponding to the highest volume of SMS) has been used.
- In some countries, an operator will have agreed different SMS TRs in its negotiations with each one of the other operators. In this case, if not differently indicated, a TR simple average is calculated.

¹² International SMS TRs in most European countries – also based on bilateral negotiations among operators – generally result in higher levels than the domestic rates represented in this report.

¹³ This may diverge from the average revenue from an SMS at the wholesale level.

¹⁴ The figures used in the report stem from the MTR benchmark (July 2014). In the case of the weighted average, only the countries reporting the number of subscribers are taken into account.

¹⁵ Total subscribers per country divided by total European subscribers

TABLE 3: SMS TR per country as of July 2014 (eurocents)

Country	SMS TR per country (eurocents)
AT	3.28
BE ¹⁶	4.96
BG	confidential
CH ¹⁷	4.24
CY	0.61
CZ	confidential
DE ¹⁸	n.a.
DK	0.80
EE	2.32
EL ¹⁹	3.00
ES	3.03
FI	confidential
FR	1.00
HR	confidential
HU	4.58
IE	3.17
IS ²⁰	2.49
IT	3.39
LI	3.98
LT	0.89
LU	n.a.
LV	2.13
MK	0.81
MT	1.80
NL	5.60
NO ²¹	4.17
PL ²²	1.20
PT	1.27
RO	2.26
RS	Bill and Keep
SE	n.a.
SI	Bill and Keep
SK	3.00
TR	0.15
UK	2.04
Average (S)	2.19
Average (W)	2.02

¹⁶ BE: Data as of the 1 October 2013

¹⁷ CH: Subscriber base as of 30/06/2014

¹⁸ DE: Numbers of subscribers are as of 2nd quarter 2014

¹⁹ EL: Data refers to active subscribers

²⁰ IS: Number of subscribers is as of 1 January 2014

²¹ NO: Numbers of subscribers are provided as of 31.12.2013. The total number of subscribers according up to 1st of July 2014 will not be able before Q3 2014

²² PL: Data as of 31st of December 2013

5. ANNEXES

1. COUNTRY ABBREVIATIONS

AT Austria BE Belgium BG Bulgaria CH Switzerland CY Cyprus Czech Republic CZ DK Denmark DE Germany EE Estonia EL Greece ES Spain FΙ **Finland** FR France HR Croatia HU Hungary ΙE Ireland IS Iceland IT Italy LI. Liechtenstein LT Lithuania LV Latvia LU Luxembourg Former Yugoslav Republic of MK Macedonia MT Malta NL Netherlands NO Norway PL Poland PT **Portugal** RO Romania RS Serbia SE Sweden SI Slovenia SK Slovakia TR Turkey UK **United Kingdom**

2. EXCHANGE RATES²³

COUNTRY	1 EURO
BG	1.96
CH	1.22
CZ	27.45
DK	7.46
HR	7.60
HU	305.91
IS	154.86
LI	1.2192
LT	3.45
MK	61.50
NO	8.40
PL	4.17
RO	4.43
RS	115.58
SE	9.18
TR	2.90
UK	0.80

²³ ECB website: http://sdw.ecb.europa.eu/browseSelection.do?DATASET=0&FREQ=A&node=2018794
For IS at http://www.cb.is/exchange-rate/