



Brussels, **XXX**
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ANNEX 1

ANNEX

to the

COMMISSION IMPLEMENTING REGULATION

laying down detailed rules on the application of fair-use policy and on the application, and the methodology for assessing the sustainability, of the abolition of retail roaming surcharges

ANNEX I

Proportional change in actual volumes of regulated roaming services under 'roam-like-at-home' compared with the same period in the previous year:

$$\left(\frac{\sum_{j=1}^n volume_j (t)}{\sum_{j=1}^n volume_j (t-1)} - 1 \right) * 100$$

where n is the number of days of 'roam-like-at-home' application ($n \geq 45$) and t is the year of first 'roam-like-at-home' application.

This percentage should be used to estimate the change in volumes over the remainder of the 12-month period by multiplying it by the volumes in the previous year.

ANNEX II

1) Weights w_i of mobile retail services:

$$w_i = \frac{\text{average wholesale roaming price paid by operator}_i}{\sum_{k=1}^3 \text{average wholesale roaming price paid by operator}_k}$$

where i, k = service (1 = voice, 2 =SMS, 3 = data)

2) Ratio of overall traffic volume of applicant's retail roaming services to overall retail outbound and wholesale inbound traffic of its roaming services:

$$\frac{\text{retail outbound roaming traffic}}{(\text{retail outbound} + \text{wholesale inbound}) \text{roaming traffic}} = \sum_{k=1}^3 w_k * \frac{\text{retail outbound roaming traffic}_k}{(\text{retail outbound} + \text{wholesale inbound}) \text{roaming traffic}_k}$$

where k = service (1 = voice, 2 =SMS, 3 = data)

3) Ratio of overall traffic volume of applicant's retail roaming services within the Union to overall traffic of its retail roaming services within and outside the Union:

$$\frac{\text{retail outbound EU roaming traffic}}{\text{retail outbound (EU + nonEU)roaming traffic}} = \sum_{k=1}^3 w_k * \frac{\text{retail outbound EU roaming traffic}_k}{\text{retail outbound (EU + nonEU) roaming traffic}_k}$$

where k = service (1 = voice, 2 =SMS, 3 = data)

4) Ratio of overall traffic of applicant's retail roaming services within the Union to overall retail traffic of all mobile retail services:

$$\frac{\text{retail outbound EU roaming traffic}}{\text{retail outbound (EU + nonEU) roaming traffic} + \text{retail domestic traffic}}$$

$$= \sum_{k=1}^3 w_k$$

$$* \frac{\text{retail outbound EU roaming traffic}_k}{\text{retail outbound (EU + nonEU) roaming traffic}_k + \text{retail domestic traffic}_k}$$

where k = service (1 = voice, 2 =SMS, 3 = data)

5) Retail EU roaming revenue:

$$\text{Retail EU roaming revenue}$$

$$= \text{retail domestic revenue}$$

$$* \left(\sum_{k=1}^3 w_k \right)$$

$$* \frac{\text{retail outbound EU roaming traffic}_k}{\text{retail outbound (EU + nonEU) roaming traffic}_k + \text{retail domestic traffic}_k}$$

where k = service (1 = voice, 2 =SMS, 3 = data)