

Appendix 1

CALCULATION STANDARDS TABLE OF MOBILE TELECOMMUNICATIONS FREQUENCY

1. The utilization fee payment shall be made by the mobile communications operator annually
= utilization fee per MHz * assigned frequency bandwidth * business category adjustment factor
*remote area coverage factor * frequency adjustment factor * territory factor

2. The determinants of mobile communication businesses are in the following table:

Business category	Utilization fee per MHz (NT\$/ MHz)	Business category adjustment factor
Mobile Communications (2G)	10,675,000	1
Third Generation Mobile Communications (3G)	10,675,000	1
Wireless Broadband Access Services	1,476,000	1
Mobile Broadband (4G)	10,675,000	1(first year 0.1; second year 0.4; third year 0.7; fourth year thereon 1)

An operator that pays the spectrum usage fee in accordance with Paragraph 3, Article 85 of Regulations for Administration of Mobile Broadband Service shall remit payment according to the first-year adjustment factor of mobile broadband service, within a one-year period from the date of reverting its frequencies.

3. Remote area coverage factor

Population coverage rate for remote villages established with high-speed transmission station (C)	Remote area coverage factor
$C < 85\%$	1
$85\% \leq C < 90\%$	0.95
$90\% \leq C < 95\%$	0.9
$95\% \leq C$	0.85

Frequency users shall submit the self-evaluation report for “Population coverage rate for remote villages established with high-speed transmission station (C)” before January 31 of each year. Upon verification of the competent authority, the “remote area coverage factor” shall be determined according to the aforesaid rate.

Population under the electromagnetic wave coverage in the remote area: where the village has more than one high-speed transmission station (where the maximum RF output power of the transmitter is more than 7.94 Watts) or the coverage of electromagnetic wave is above 85% of the village’s surface area, the population shall be calculated based on the village’s entire population.

Population coverage rate for high-speed transmission base in the remote area: population under the electromagnetic wave out of the total population of villages in the remote area.

4. Frequency adjustment factor

Range of used frequency (F)	Frequency adjustment factor
$F < 1\text{GHz}$	1
$1\text{GHz} \leq F < 2.2\text{GHz}$	0.9
$2.2\text{GHz} \leq F$	0.8

Remarks:

1. Both up link and down link frequencies shall be charged.
2. Territory factors are detailed in annex 1.
3. The territory factor of Wireless Broadband Access Service shall be determined by calculating all the territory factors of counties included in the service area.
4. WBA operators shall remit spectrum usage fees according to the billing standards of Mobile Broadband Service after the expiry of its concession license in one category and license renewal in another.
5. “Remote area” refers to the same “remote area” defined in Paragraph 12 of Article 2 of Telecommunications Universal Service Regulations; “high-speed transmission station” refers to the “high-speed transmission station” defined in Paragraph 5 of Article 2 of Regulations for Administration of Mobile Broadband Businesses.

The utilization fee payment shall be made by the mobile communications operator annually

= { utilization fee per MHz system+ the number of subscribers(station) to be serviced per MHz * mobile station frequency utilization fee per station (NT\$/ per station) } * assigned frequency bandwidth * business category adjustment factor-*territory factor

The determinants of mobile communication businesses are in the following table:

Business category	utilization fee per MHz system (NT\$/ MHz)	the number of subscribers (station) to be serviced per MHz	mobile station frequency utilization fee per station (NT\$)	business category adjustment factor	Remarks
1900MHz Digital Low-Tier Cordless Telephone Business (LT)	4,781,000	15,000	15	0.4	1. Both up link and down link frequencies shall be charged. 2. Territory factors are detailed in annex 1. 3. The territory factor of Wireless Broadband Access Service shall be determined by calculating all the territory factors of counties included in the service area.
Mobile Data Communications System	1,839,000	29,000	10	0.3	
Trunk Cordless Telephone System	1,839,000	2,500	10	0.3	
900MHz Digital Low-Tier Cordless Telephone Business (CT2)	3,678,000	4,500	10	0.3	
Paging System	2,427,000	2,000,000	2	1	