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# Regulations

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## Frequency Spectrum Fees

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**Article (1)**

**Purpose**

- 1.1 In accordance with the Federal Law by Decree No. 3 of 2003 and its Executive Order as amended, these Regulations effective 1<sup>st</sup> January 2017, sets the Frequency Spectrum Fees schedule for Frequency Spectrum and Wireless Equipment Authorization. The purpose of these regulations is to ensure the efficient use of spectrum resource and to encourage innovation and investment in the ICT sector in the UAE.

**Article (2)**

**Definitions**

- 2.1 In applying these Regulations, the following terms shall have the following meanings unless the context requires otherwise, whereas any term undefined in the following shall be defined in line with the Federal Law by Decree No. 3 of 2003 and its Executive Order as amended:
- 2.1.1 **"Applicant"** means any Person who has applied for a License or an Authorization in accordance with the Telecom Law or other Regulatory Instruments issued by the TRA.
- 2.1.2 **"Application"** means the request for issuance of a License or an Authorization, received at the Authority on prescribed forms as per the procedure in vogue.
- 2.1.3 **"Authorization"** means a valid frequency spectrum authorization issued by the TRA and permits the use of radio frequency subject to terms and conditions as stipulated by the TRA.
- 2.1.4 **"Authorized User"** means a Person that has been granted an Authorization by the TRA.
- 2.1.5 **"Person"** will include 'juridical entities' as well as 'natural persons'.
- 2.1.6 **"Frequency Spectrum Fees"** means the fees to be paid to the Authority. It has two components: Application Fees and Frequency Fees.
- 2.1.7 **"Application Fees"** means the fees paid for the request for processing a new, renew or modification of a License or an Authorization, received at the TRA as per the procedure.
- 2.1.8 **"Frequency Fees"** means the fees to be paid to the Authority, on the issue, modify or renewal of an Authorization.



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- 2.1.9 **"Station"** means one or more transmitters or receivers or a combination of transmitters and receivers, including the accessory equipment, necessary at one location for carrying on a radiocommunication service.
- 2.1.10 **"Temporary Authorization"** means an Authorization issued by the TRA for a period up to 90 days.
- 2.1.11 **"Wireless Equipment"** means a category of Telecommunication Apparatus used for Radiocommunication Service.
- 2.1.12 **"Authority (TRA)"** means the General Authority for Regulating the Telecommunication Sector known as Telecommunications Regulatory Authority (TRA) established pursuant to the provisions of Article 6 of Federal Law by Decree No. 3 of 2003.
- 2.1.13 **"UAE"** means the United Arab Emirates including its territorial waters and the airspace above.
- 2.1.14 **"Federal Law by Decree"** means the Federal Law by Decree No. (3) of 2003 Regarding the Organisation of the Telecommunications Sector as amended.

**Article (3)**

**Schedule of Frequency Spectrum Fees**

3.1 Frequency Spectrum Fees in the following schedule shall be non-refundable and collected in advance for applying, registering, authorizing, issuing or renewing Authorization on yearly basis, unless specified in these Regulations.

	<b>Fees Types</b>	<b>Fees (AED)</b>	<b>Remarks</b>
1	Application Fees	100	Refer Note 1
2	Authorization cancellation	0	Refer Note 2
3	Temporary Authorization	Fees = Frequency Fees x Number of days / 365	Refer Note 3
4	Public Land Mobile (Cellular)	Frequency Fees = (FF x CF x P x BW)) / 4000	Refer Note 4
5	Private Mobile Radio, Paging, and Trunking	Frequency Fees = $= \frac{BW * CF}{6.25} + \sum 500 * WE * PF$	Refer Note 5
6	Public Access Mobile Radio (PAMR)	Spectrum Fees = (BW x CF x 50)	Refer Note 6
7	Fixed (point to point) links above 30 MHz	Frequency Fees = FF x BW x 1600	Refer Note 7



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8	HF Fixed (point to point) links below 30 MHz	Frequency Fees = BW x 1000	Refer Note 8
9	FWA, BWA and Fixed (point-to-multipoint) links including (WLL and Mesh)	Frequency Fees = BW x CF x FF	Refer Note 9
10	Global Mobile Personal Communications by Satellite (GMPCS)	Frequency Fees = BW x 10000	Refer Note 10
11	Amateur Radio	100	
12	Aircraft/Helicopter	2000	
12	Gliders/Balloons	500	
14	Fishing Boat	100	
15	Pleasure Boat	500	
16	Ships and Rigs	1000	
17	Marine buoys	0	
18	Earth Station (including Feeder link)	25000	
19	Very Small Aperture Antenna (VSAT)	0 (if part of Public Telecommunications network of a Licensee) 5000 (for Private Telecommunications network)	
20	Digital Satellite News Gathering (DSNG)	5000	
21	Earth Station on board Vessels (ESV) and Aircraft Earth Station (AES)	0	
22	Television Receive Only (TVRO)	0	
23	Radionavigation, Radiolocation, Radio Astronomy Station	500	
24	Terrestrial Sound and Television Broadcasting	Frequency Fees (per Station) = B + (P x ST x H )	Refer Note 11
25	HF Seasonal Sound Broadcasting	20,000 (per transmitter)	
26	Wireless Camera Links	Frequency Fees = (BW x FF x 200) + (CF x 5)	Refer Note 12
27	Ultra Wide Band and Short Range Devices	0	
28	Low Power Devices	200 (per Device)	Refer Note 13
29	Free Space Optics (FSO) and Laser links	0	
30	Emergency and Distress frequencies	0	

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<b>31</b>	Interference complaints processing and monitoring Fees	0	
<b>32</b>	Site Surveys	2500 (per day for each visit)	
<b>33</b>	Foreign Embassies, Consulates and Diplomatic Missions (official use)	0	<b>Refer Note 14</b>
<b>34</b>	Technology Trials	500 (per day)	<b>Refer Note 15</b>
<b>35</b>	Public Protection and Disaster Relief (PPDR)	Fees = Frequency Fees x (number of commercial subscribers / PPDR network operator's total number of subscribers)	<b>Refer Note 16</b>

**Note 1: Application Fees**

Applicable for new, renew or modification of Authorization

**Note 2: Authorization cancellation**

At the cancellation of an Authorization, no refund of Frequency Spectrum Fees shall be made. Even in the case of re-farming of assignments mandated by the TRA, no refund of Frequency Spectrum Fees shall be made.

**Note 3: Temporary Authorization**

Frequency Fees for Temporary Authorization shall be calculated based on pro-rata for a period up to 90 days with a minimum fees of AED 100.

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**Note 4: Details on formula factors**

- P = Price per MHz, set at 1.15 Million AED per year
- FF = Frequency range factor which will be as follows:

Frequency Range	Below 1 GHz	1 – 2.1 GHz	2.1 – 2.3 GHz	2.3 – 2.5 GHz	2.5 – 2.7 GHz	Above 2.7 GHz
<b>FF</b>	1.0	0.7	0.6	0.15	0.2	0.1

- BW = Assigned bandwidth in MHz where BW for 2x20 MHz shall be taken as 40 MHz
- CF = coverage factor depending on area as determined by the TRA which will be as follows:

Area	Railways	Area within Emirate	Emirate wide	All UAE
<b>CF</b>	100	500	2000	4000

**Note 5: Private Mobile Radio, Paging, and Trunking**

- BW = the total bandwidth of the authorization (in kHz).
- WE = Wireless Equipment (including handhels) will be included in the calculation.
- $\sum (WE \times 500 \times PF)$  = Total sum of (each Wireless Equipment multiplied by 500 multiplied by Power Factor).
- PF= Power Factor depending on the authorized effective radiated power (ERP) for the equipment, as follows:

Description	Less than 1 Watt*	1 Watt and less than or equal to 5 Watts	Above 5 Watts and less than or equal to 10 Watts	Above 10 Watts and less than or equal to 20 Watts	Above 20 Watts
<b>PF</b>	0.2	1	2	3	4

\*PF determined for Taxis, or Camel/ Horse Racing, or Networks with Vehicle-Mounted equipment only, and Tracksides is 0.2

- CF= Coverage Factor depending on the geographical area as determined by the TRA as follows:

Area	Area within Emirate	Emirate wide	All UAE
<b>CF</b>	500	2,000	10,000

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**Note 6: Public Access Mobile Radio (PAMR)**

This note is for Networks in the frequency range of 380-400 MHz,

- BW = the total bandwidth of the authorization (in MHz).
- CF= Coverage Factor depending on the geographical area as determined by the TRA as follows:

Area	Area within Emirate	Emirate wide	All UAE
CF	500	2,000	4,000

**Note 7: Fixed (point to point) links above 30 MHz**

FF= Frequency range factor as follows: BW= Bandwidth factor as follows:

Frequency Range	FF
0.03 GHz - 3 GHz	5
>3 GHz – 14 GHz	3
>14 GHz – 48 GHz	2
48 GHz - 66 GHz	0.5
Above 66 GHz	1

Bandwidth	BW Factor
7 MHz or less	1
>7 MHz -28 MHz	2
>28 MHz – 56 MHz	3
More than 56 MHz	4

**Note 8: HF Fixed (point to point) links below 30 MHz**

- BW is the total bandwidth in kHz for all channels of that link

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**Note 9: FWA, BWA and Fixed (point-to-multipoint) links including (WLL and Mesh)**

- BW = Total Bandwidth in MHz

For Fixed (point-to-multipoint) links including (WLL and Mesh) in 2.4/5/60 GHz bands only, BW=100 will be used with FF=5)

- CF= Coverage Factor depending on the geographical area as determined by the TRA as follows:

Area	Area within Emirate or Trackside	Emirate wide	All UAE
CF	100	1,000	4,000

- FF= Frequency Factor for range of less than 2 GHz =500, where for other ranges will be determined as follows:

Frequency Range	Frequency Factor (FF)
2 GHz - 6 GHz	5
6 GHz - 11 GHz	4
11 GHz - 14 GHz	3
14 GHz - 40 GHz	2
> 40 GHz	1

**Note 10: GMPCS**

- BW = the assigned bandwidth in MHz



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**Note 11: Terrestrial Sound and Television Broadcasting**

- B = Basic Fee = 40,000 AED
- P = Power Factor shall be the power; expressed in decibels relative to 1 kiloWatt [dBW] equals the transmitter output power (in case of LF or MF transmitters) and Effective Radiated Power (ERP) in all other cases
- H = Antenna Height Factor is the Antenna Height above ground level in metres including buildings and towers
- ST = Service Type Factor shall be calculated as follows:

Sound Broadcasting Service			
Service Type	Frequency Range	Bandwidth	Service Type Factor (ST)
LF/MF Sound Broadcasting	148.5 – 283.5 kHz	9 kHz	4.5
	526.5 – 1,606.5 kHz	9 kHz	
VHF Sound Broadcasting	87.5 – 108 MHz	200 kHz	11
	174 – 230 MHz	1.536 MHz	21

**Table 1 –Service Type Factors (ST) for Sound Broadcasting Services**

TV Broadcasting Service			
Service Type	Frequency Range	Bandwidth	Service Type Factor (ST)*
Terrestrial Digital TV Broadcasting	174 – 230 MHz	7 MHz	60
	470 – 694 MHz	8 MHz	68
Terrestrial Mobile TV Broadcasting	174 – 230 MHz	7 MHz	119
	470 – 694 MHz	8 MHz	136

**Table 2 –Service Type Factors (ST) for TV Broadcasting Services**

\*Service Type Factor can be calculated with respect to above mentioned bandwidth and closest frequency range if similar Broadcasting Service is required to be authorized in any frequency band not mentioned above.

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**Note 12: Wireless Camera Links**

- BW is the total bandwidth in MHz for each link.
- FF = Frequency Range Factor

Frequency Range	1 GHz - 3 GHz	>3 GHz – 14 GHz	>14 GHz – 48 GHz	Above 48 GHz
FF	5	3	2	1

- CF= Coverage Factor depending on the geographical area as determined by the TRA as follows:

Area	Area within one Emirate	Emirate wide	All UAE
CF	500	2000	4000

**Note 13: Low Power Devices**

The criteria for Low Power Devices will be determined in the relevant regulations issued by the TRA. For Temporary Authorization a minimum fee of AED 100 per device will be charged.

**Note 14: Foreign Embassies, Consulates and Diplomatic Missions (official use)**

This applies on the condition reciprocal basis where it is available for the UAE Embassy, Consulate and Mission in the country of origin.

**Note 15: Technology Trials**

Only used for the purposes of demonstration of new technologies.

**Note 16: PPDR**

Frequency Fees are applied on the PPDR networks which include but not limited to the following: International Mobile Telecommunication (IMT) networks, fixed links, etc. and relevant frequency fees to be used.

**Article (4)**

- 4.1 The TRA shall have the authority to interpret and apply the Frequency Spectrum Fees Regulations.