

Coastal Station Radio Licences – The New Fees Explained

CSR (UK) TECHNICALLY ASSIGNED (SIMPLEX OR DUPLEX)

Introduction

CSR (UK) Technically Assigned licences are the licences that we have been issuing hitherto, where we authorise a single base station. The annual fee for each assigned channel for each base station under these licences will depend on:

- The extent of coverage, as determined by antenna height and radiated power
- The density of population (high, medium or low) of the area in which the base station is sited. This is based on the grid square in which the base station is located.
- The channel width (6.25 kHz, 12.5 kHz or 25 kHz)

How to calculate your CSR (UK) technically assigned licence fee (simplex or duplex)

Coverage

First, you must determine whether your station is high, medium or low coverage. Look at Table 1, below to see what type of coverage your station is.

Population density

Second, you must determine whether your station is in a high, medium or low population density area.

To do this, you must identify the 50 km x 50 km square in which your base station is located. These are the four quarters of a 100 km x 100 km Ordnance Survey *Landranger* grid square. The OS 100 km x 100 km squares are identified by a two letter reference. For example, east Kent is square TR and the Isle of Mull is in square NM. We have divided each 100 km x 100 km square into four 50 x 50 km squares thus:

a	b
c	d

The coordinates of the origin (that's the bottom left hand corner) of square a will always be 000 500. The origin of square b will be 500 500. The origin of square c will be 000 000 and the origin of square d will be 500 000.

To identify the correct square, look at a proprietary mapping website and get the eight character (two letters and six digits) OS *Landranger* reference.

For example, St Martin's Priory, Dover is at TR 314 415. That is in the 100 km x 100 km square TR. Because both halves of the six-figure reference are less than 500, it will be in the 50 km x 50 km square TR(d) or TR 000 000. Duart Castle, Mull is at NM 748 352, in the

100 km x 100 km square NM. The first three digits of the six-digit reference are greater than 500 but the second three are less than 500. So, Duart Castle is situated in the 50 km x 50 km square NM(d) or NM 500 000.

Now you know the 50 x 50 km square, look at Table 2 to see if you are in a high, medium or low density area square. This is taken from Schedule 5 to the fees regulations¹.

You now know the coverage area of your station and the population density of the area in which your base station is situated. You can now look at Table 3 below to find out your fee. The sum shown is for a simplex 25 kHz channel. Duplex 25 kHz channels will cost double. Narrower channel widths (eg 12.5 or 6.25 kHz) will be reduced *pro rata*.

CSR (UK) AREA DEFINED (SIMPLEX OR DUPLEX)

Introduction

The annual fee for each channel under a CSR (UK) Area Defines licence will depend on:

- The number of OS grid squares to be included
- The population density (high, medium or low) of each square
- The channel width

How to calculate your CSR (UK) area defined licence fee (simplex or duplex)

First, you must choose which 50 km x 50 km square(s) you would like your licence to cover. The method for identifying the squares is the same as for CSR (UK) Technically Assigned licences.

Next look at Table 2, below, and see whether your square(s) is/are high, medium or low population density.

Finally, from Table 4, identify the fee for the square(s) that you have chosen. The fee shown is for a simplex 25 kHz channel. Duplex 25 kHz channels will cost double. Narrower channel widths (eg 12.5 or 6.25 kHz) will be reduced *pro rata*.

CSR (INTERNATIONAL) TECHNICALLY ASSIGNED (SIMPLEX)

Introduction

The annual fee for each assigned channel for each base station under these licences will depend on:

- Extent of coverage, as determined by antenna height and radiated power
- The congestion (high, medium, low or none) of the area in which the base station is situate, based on the 50 km x 50 km Ordnance Survey square in which the base station is located.
- The channel width (6.25 kHz, 12.5 kHz or 25 kHz)

How to calculate your CSR (International) technically assigned licence fee (simplex only)

Coverage

First, you must determine whether your station is high, medium or low coverage. Look at Table 5, below to see what type of coverage your station is.

Congestion

Second, you must determine whether your station is in a heavy, medium or low congestion area or in an area of non-congestion.

To do this, you must identify the 50 km x 50 km square in which your base station is located. These are the four quarters of a 100 km x 100 km Ordnance Survey *Landranger* grid square. The OS 100 km x 100 km squares are identified by a two letter reference. For example, east Kent is square TR and the Isle of Mull is in square NM. We have divided each 100 km x 100 km square into four 50 x 50 km squares thus:

a	b
c	d

The coordinates of the origin (that's the bottom left hand corner) of square a will always be 000 500. The origin of square b will be 500 500. The origin of square c will be 000 000 and the origin of square d will be 500 000.

To identify the correct square, look at a proprietary mapping website and get the eight character (two letters and six digits) OS *Landranger* reference.

For example, St Martin's Priory, Dover is at TR 314 415. That is in the 100 km x 100 km square TR. Because both halves of the six-figure reference are less than 500, it will be in the 50 km x 50 km square TR(d) or TR 000 000. Duart Castle, Mull is at NM 748 352, in the 100 km x 100 km square NM. The first three digits of the six-digit reference are greater than 500 but the second three are less than 500. So, Duart Castle is situate in the 50 km x 50 km square NM(d) or NM 500 000.

Now you know the 50 x 50 km square, look at Table 6 to see if you are in a high, medium or low congestion square. Any square not referred to is non-congestion. This is taken from Schedule 8 to the fees regulations¹.

You now know the coverage area of your station and the congestion of the area in which your base station is situated. Look at Table 7 below to find out your fee. Bear in mind that

the sum shown is for a simplex 25 kHz channel. Narrower channel widths (eg 12.5 or 6.25 kHz) will be reduced *pro rata*.

CSR (INTERNATIONAL) TECHNICALLY ASSIGNED (DUPLEX)

As we simply seek to recover our costs for issuing licences for CSR (International) duplex channels, there is a flat annual fee of £75 per duplex channel using both frequencies.

CSR (INTERNATIONAL) AREA DEFINED (SIMPLEX)

Introduction

The annual fee for each channel under A CSR (International) Area Defined licences will depend on:

- The number of OS grid squares to be included
- The congestion (high, medium, low or none) of each square.
- The channel width

How to calculate your CSR (International) area defined licence fee (simplex only)

First, you must choose which 50 km x 50 km square(s) you would like your licence to cover. The method for identifying the squares is the same as for CSR (International) Technically Assigned licences.

Next look at Table 6 and see whether your square(s) is/are high, medium or low congestion or non-congestion.

Finally, from Table 8, identify the fee for the square(s) that you have chosen. The fee shown is for a 25 kHz channel. Narrower channel widths (eg 12.5 or 6.25 kHz) will be reduced *pro rata*.

CSR (INTERNATIONAL) AREA DEFINED (DUPLEX)

Introduction

The annual fee for each channel under CSR (International) Area Defined licences will depend on:

- The number of 50 km x 50 km OS grid squares
- The rate per group of four squares
- A ceiling of £500 per channel, regardless of the number of squares

How to calculate your CSR (International) area defined licence fee (duplex)

First, you must choose which 50 km x 50 km square(s) you would like your licence to cover. The method for identifying the squares is the same as for CSR (International) Technically Assigned licences. Then tot up the number of 50 km x 50 km squares you need.

Look at Table 9 to see the fee for the number of squares that you have requested.

CSR LICENCE FEES REFERENCE TABLES

**Table 1 - CSR (UK) Technically Assigned licence
What's my coverage area?**

<i>Radiated power (Watts erp)</i>	<i>Antenna height (metres above ground level)</i>	<i>Coverage area</i>
>5 W	> 10m	High
≤ 5 W	> 30m	High
≤ 5 W	> 10 m and ≤ 30m	Medium
> 5 W	≤ 10m	Medium
≤ 5 W	≤ 10m	Low

**Table 2 CSR (UK) Technically Assigned and Area Defined licences
What's the population density of my area?**

<i>High population areas</i>			
TQ 000 500			
<i>Medium population areas</i>			
NJ 500 000	SJ 000 500	SP 500 000	TA 000 000
NO 000 000	SJ 500 500	SS 500 500	TF 000 000
NS 000 500	SJ 500 000	ST 000 500	TG 000 000
NS 500 500	SK 000 500	ST 500 500	TL 500 500
NT 000 500	SK 500 500	ST 000 000	TL 000 000
NW 000 000	SK 000 000	SU 000 500	TL 500 000
NZ 000 500	SK 500 000	SU 500 500	TM 000 000
NZ 000 000	SO 500 500	SU 000 000	TQ 500 500
SD 000 000	SO 500 000	SU 500 000	TQ 000 000
SD 500 000	SP 000 500	SX 000 500	TQ 500 000
SE 000 000	SP 500 500	SX 500 500	TR 000 500
SE 500 000	SP 000 000	SZ 000 500	
<i>Low population areas</i>			
All references for 50 km x 50 km squares other than those listed above.			

**Table 3 CSR (UK) Technically Assigned licence
What's my annual fee (single 25 kHz channel)?**

	<i>Small coverage Area (£ pa)</i>	<i>Medium Coverage Area (£ pa)</i>	<i>High coverage Area (£ pa)</i>
<i>High density</i>	100	370	740
<i>Medium density</i>	85	170	250
<i>Low density</i>	75	80	90

**Table 4 CSR (UK) Area Defined licence
What's my annual fee (single 25 kHz channel)?**

<i>Area</i>	<i>Fee (£ pa)</i>
UK-wide	8250
50 km x 50 km square - high population area	990
50 km x 50 km square - medium population area	125
50 km x 50 km square - low population area	12*
<i>*The minimum charge per licence is £75 pa.</i>	

**Table 5 CSR (International) Technically Assigned licence (simplex only)
What's my coverage area?**

<i>Radiated power (Watts erp)</i>	<i>Antenna height (metres amsl*)</i>	<i>Coverage area</i>
≥24W	≥10m	High
≥10W	≥20m	High
>5W	≥30m	High
>10W	<10m	Medium
> 7W and < 24W	> 5m and <20m	Medium
> 3W and <10W	>10m and <30m	Medium
>1.5W and < 5W	>20m	Medium
<5W	>30m	Medium
≤10W	≤5m	Low
≤7W	≤10m	Low
≤3W	≤20m	Low
≤1.5W	≤30m	Low

*The total antenna height above mean sea level is the height of the antenna above ground level plus the height of the antenna site above sea level

**Table 6 CSR (International) Technically assigned licence
What's my congestion area?**

<i>Heavy congestion areas</i>			
NW 000 000	TA 000 000	TF 000 000	TM 000 000
SU 000 000	TQ 000 000	HU 000 500	NZ 500 000
SE 500 000	TG 500 000	SM 500 000	NS 000 500
NT 000 500	NZ 000 500	SC 000 500	SD 000 500
SH 000 500	SJ 000 500	NS 500 500	SU 500 000
SW 500 000	ST 000 500	TQ 000 500	TR 000 500
SX 000 500	SZ 000 500	SS 500 500	TQ 500 500
SX 500 500	SY 500 500	XD 500 500	
<i>Medium congestion areas</i>			
HU 000 000	HY 000 000	NO 000 000	TG 000 000
TR 000 000	SW 000 000	ND 000 500	NJ 500 000
NO 500 000	NW 500 000	SK 500 000	TF 500 000
SB 000 500	NT 500 500	SH 500 500	SJ 500 500
SK 500 500	TM 500 500	SW 000 000	
<i>Light congestion areas</i>			
NK 000 000	NS 000 000	NU 000 000	NZ 000 000
SD 000 000	SS 000 000	ST 000 000	NG 500 000
NH 500 000	NX 000 500	NY 000 500	SE 000 500
TA 000 500	NH 500 500	NJ 500 500	NM 500 500
NO 500 500	NW 500 500	SS 500 000	SY 000 500
ST 500 500	SW 500 500	SZ 500 500	
<i>Non-congestion areas</i>			
All grid square references for 50 km x 50 km areas other than those listed in this Schedule.			

**Table 7 CSR (International) Technically Assigned licence (simplex only)
What's my annual fee (single 25 kHz channel)?**

	<i>Small coverage area (£ pa)</i>	<i>Medium coverage area (£ pa)</i>	<i>High coverage area (£ pa)</i>
<i>Heavy congestion</i>	300	400	500
<i>Medium congestion</i>	125	150	200
<i>Low congestion</i>	75	75	100
<i>Non-congestion</i>	75	75	75

**Table 8 CSR (International) Area Defined licence (simplex only)
What's my annual fee (25 kHz channel)?**

<i>Area</i>	<i>Annual fee (£)</i>
UK-wide	9275
50 km x 50 km square - heavy congestion area	220
50 km x 50 km square - medium congestion area	85
50 km x 50 km square - low congestion area	45*
50 km x 50 km square in a non-congestion area	0 (zero)*
<i>*The minimum charge per licence is £75 pa.</i>	

**Table 9 CSR (International) Area Defined licence (duplex only)
What's my annual fee?**

<i>Size of licensed area</i>	<i>Annual fee (£)</i>
1–4 grid squares	75
5–8 grid squares	150
9–12 grid squares	225
13–16 grid squares	300
17–20 grid squares	375
21–24 grid squares	450
More than 24 grid squares	500

¹ The Wireless Telegraphy (Licence Charges) Regulations 2011 (SI 2011/1128)