

## **1 CUSTOMER INFORMATION**

Company, association or consumer customer information entered in section 1 of this application form will be used also as invoicing information for the radio licence granted based on this application, unless you have previously provided Traficom with other, licence-type-specific invoicing information. If you enter invoicing information in section 3 of this application form, that will be used instead, but only for invoicing the radio licence granted based on this application. Name of customer Customer number (if available) Business ID or personal identification code Postal address (for mailing the licence) Postal code and town/city Telephone number Email address Contact details of the person in charge for radio licence matters in the company/association (does not apply to consumer customers) The contact person works in the organisation of the customer company/association and has overall responsibility of the customer's radio licence matters. If your organisation has several people who are responsible for radio licence matters, please fill in the details of the person in charge of the radio licence in question. Name of the contact person Telephone number of the contact person Email address of the contact person

<b>2 CONTACT PERSON F</b> In section 2 of the application			<b>ON</b> Traficom may contact in matters
concerning this application or t to the customer organisation, f on customer's behalf. This sect details or contact person detail	he radio licence granted base or example a hardware supp ion can be left blank if the de s in section 1.	ed on this application lier authorised by the etails are the same as	. The contact person may be external e customer to apply for a radio licence s those indicated under customer
Name of contact person (and r	ame of employer if required)		
Telephone number 1		Telephone number	2
Email address			
Tick the applicable boxes			
	in section 1 has authorised the radio licence on behalf	•	the company represented by the
The customer requests a	copy of the radio licence to b	e sent to the contact	person.
application, where different fro	form, please enter invoicing i m the customer details indica e-type-specific invoicing inform	ated in section 1. If s mation, those details	dio licence granted based on of this lection 3 is left blank but the customer will be used. If such information has voicing information.
		1	
Business ID or personal identification code		Association register number	
Postal address (where the invo	ices are to be mailed)	I	
Postal code and town/city			
Customer-selected invoice refe	rence (max 35 characters)		
	the recipient's 'Finvoice addr	ess', for example XX	003707090192001, where XX is the 192=business ID, 001=specifier).
EDI code	Operator ID		E-invoice operator
			v2019112:



## **4 APPLICATION TYPE**

addition of a new radio system to an existing radio licence or a change to a radio system in an existing radio licence. If the radio licence is new, you may select the period of validity of your choice, but not exceeding 5 years. A new radio licence application is always required if the validity period requested for a new radio system is different from the validity period of the radio licence for the customer's existing radio system (for example a short-term licence for a few days).
Each radio system constitutes its own part of the radio licence. A single radio system may include both base stations and mobile stations or only either. A mobile station is a walkie-talkie or similar mobile device which can communicate with another mobile station directly (on simplex frequency) or via a base station (on duplex frequency). Mobile stations for PMR networks, which are considered to be part of the same operational entity based on their base stations used, location, purpose of use or similar grounds, are considered as mobile stations of the same radio system.
Application type (choose only one option)
new radio licence for the period* (start date – end date)
new radio system to an existing radio licence number (e.g. PMR1234567)
<ul> <li>change to an existing radio system, number of part of radio licence</li> <li>(e.g. PMR1234567-001)</li> </ul>
* If you do not fill in a start date for the radio licence, the start date will be the date on which the radio licence is granted. If you do not fill in an end date for the radio licence, the default licence period is 5 years.
Automatic radio licence renewal (concerns only radio licences for which the customer has not defined the end date)
The radio licence granted based on this application can be renewed automatically upon the expiry of the licence period.
If you do not tick the above box, Traficom will not contact you to enquire about your willingness to extend the radio licence upon its expiry and the frequencies specified in the radio licence will no longer be reserved for you.
<b>5 PURPOSE AND STRUCTURE OF THE RADIO SYSTEM (I.E. RADIO NETWORK)</b> Section 5 of the application form explains the purpose of use and the structure of the new radio system, or the changes to be made to an existing radio system. A single filled application form may contain details for only one new radio system or changes to only a single radio system. The technical details of the equipment belonging to the radio system (base stations and mobile stations) are filled into section 6 and 7 of the form.
Purpose of use (choose only one option) radiotelephone use
<ul> <li>data transfer / telemetry</li> <li>paging</li> <li>other, please specify:</li></ul>
paging
paging other, please specify:
<pre>paging     other, please specify:</pre>
<ul> <li>paging</li> <li>other, please specify:</li></ul>
<ul> <li>paging</li> <li>other, please specify:</li></ul>
<ul> <li>paging</li> <li>other, please specify:</li></ul>



<b>6 BASE STATION DETAILS</b> In section 6 of the application form, please enter the base s stations, complete a separate application form on each base several base stations, which are identical otherwise apart fr all base stations in section 6 and indicate the different frequ different antenna for transmitting and receiving, indicate th gain of the receiving antenna, as well as the attenuation of receiver. The location of the transmitting antenna of the base National Land Survey of Finland at <u>https://asiointi.maanmit</u> marking can be added to the dedicated field under base state	e station. However, if in th om their operating frequer uencies in the appropriate is in section 5 and include the transmission path from se station can be marked o tauslaitos.fi/?lang=en, and	e same location there are used ncies, you may enter the details of field. If the base station uses a details of the location, height and n the receiving antenna to the on map at MapSite, a service of
Base station type (choose either option)		
$\Box$ repeater which relays the traffic of other stations		
$\Box$ fixed station which transmits its own traffic		
Base station identifier (added to the 'Customer reference' co	olumn of the technical con	ditions of the radio licence)
Address of the transmitting antenna location and more deta "rooftop of an office building")	iled description of the loca	ition (e.g. "lightning column" or
Transmitting antenna location as a hyperlink or a map imag not suffice)	e attached to the applicati	on (coordinates of the location do
Transmitting antenna height above ground level, m	Maximum radiated powe	r used by the base station, W ERP
Technology (choose only one option)	Channel width (choose a	pplicable options)
□ analogue	12.5 kHz	
☐ digital (such as DMR or dPMR)	25 kHz	
TETRA	other, please specified	fy:
Commercial type of transmitting antenna (if available)	Maximum gain of transmitting antenna	Transmitting antenna directivity (choose either option)
Polarisation of transmitting antenna		omnidirectional (ND)
(choose either option)	Gain unit (choose either option)	directional (D), main
vertical (V)		direction of radiation as measured from grid north
other, please specify:	☐ dBi	measured from grid for th
Total attenuation of the transmission path (cables, connector antenna, dB Base station transmit and receive frequencies	l ors, filters etc.) from the tr	ansmitter to the transmitting
At least the requested frequency band, VHF or UHF, or a model. "450–470 MHz", or a request for a specific transmit (Tx 450.325/460.025 MHz". If several transmit/receive frequent or indicate the desired total number of frequencies, e.g. "Tv	() and receive (Rx) frequer cies are required for the same set of the same	ncy, e.g. "Tx/Rx = ame location, list the frequencies



7 MOBILE STATION DETAILS

A mobile station is a radiotelephone or similar mobile device which can communicate with another mobile station directly (on simplex frequency) or via a base station (on duplex frequency). Mobile stations include portable devices and devices that can be installed in vehicles, also mobile devices which are installed in a fixed location (for example in a control room) and possibly connected to an external antenna (located for example on the roof of the control room).				
Simplex frequencies are divided into customer-specific frequencies and common channels. Customer-specific frequencies are assigned as far as possible so, that on the same area there would be no other users of the same frequency. Common channels can be used throughout Finland, but the same channels have always been granted for other customers as well.				
Section 7.1 is for the details of mobile stations communicati Section 7.2 is for the details of mobile stations communicati Section 7.3 lists the user-selectable (licenced) common cha Section 7.4 lists the user-selectable common channels for li Section 7.5 lists the user-selectable common channels for T Section 7.6 lists the user-selectable common channels for d Global Navigation Satellite System) signal.	ng via a base station on duplex frequencies. nnels for business. ting control. ETRA DMO (Direct Mode Operation). ata transmission and transmitting DGNSS (Differential			
The total number of mobile stations is the same for all static included in the total number can use all the frequencies sele granted to the customer.				
Total number of mobile stations, pcs.				
7.1 DETAILS FOR MOBILE STATIONS COMM SPECIFIC SIMPLEX FREQUENCIES The total number of mobile stations is filled in under the ma				
Area of use for the mobile stations (describe or attach a ma				
	- -			
Maximum radiated power used by the mobile stations, W EF	Ρ			
Technology (choose only one option)	Channel width (choose applicable options)			
🗆 analogue	□ 12.5 kHz			
☐ digital (such as DMR or dPMR)	□ 25 kHz			
	other, please specify:			
Commercial type of mobile stations (if available)				
Commercial type of mobile stations (if available)				
Commercial type of mobile stations (if available) Transmit and receive frequencies of the mobile stations At least the requested frequency band, VHF or UHF, or a mo e.g. "440–450 MHz", or a specific operating frequency, e.g. same location, please list the frequencies or indicate the des frequencies on band 440–450 MHz".	"440.0125 MHz". If several frequencies are required for the			
Transmit and receive frequencies of the mobile stations At least the requested frequency band, VHF or UHF, or a mo e.g. "440–450 MHz", or a specific operating frequency, e.g. same location, please list the frequencies or indicate the des frequencies on band 440–450 MHz". <b>7.2 DETAILS FOR MOBILE STATIONS COMM</b>	"440.0125 MHz". If several frequencies are required for the sired total number of frequencies, e.g. "Three simplex			
Transmit and receive frequencies of the mobile stations At least the requested frequency band, VHF or UHF, or a mo e.g. "440–450 MHz", or a specific operating frequency, e.g. same location, please list the frequencies or indicate the des frequencies on band 440–450 MHz". 7.2 DETAILS FOR MOBILE STATIONS COMM DUPLEX FREQUENCIES	"440.0125 MHz". If several frequencies are required for the sired total number of frequencies, e.g. "Three simplex			
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Transmit and receive frequencies of the mobile stations At least the requested frequency band, VHF or UHF, or a model, "440–450 MHz", or a specific operating frequency, e.g. same location, please list the frequencies or indicate the destrequencies on band 440–450 MHz". <b>7.2 DETAILS FOR MOBILE STATIONS COMM DUPLEX FREQUENCIES</b> Technology, channel width and frequencies of the mobile statistic the base station details of section 6. The total number of model Area of use for the mobile stations (describe or attach a material section and the stations (describe or attach a material section and the stations (describe or attach a material section attach attach a material section attach attach a material section attach atta	"440.0125 MHz". If several frequencies are required for the sired total number of frequencies, e.g. "Three simplex UNICATING VIA A BASE STATION ON ations communicating via a base station are determined by abile stations is filled in under the main header of section 7.			
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Application form for a radio licence for a Private/Professional Mobile Radio (PMR) system or for a paging (HH) system

## 7.3 (LICENCED) COMMON CHANNELS FOR BUSINESS TO BE USED THROUGHOUT FINLAND

The common channels are intended to be used only for voice communications related to business or profession. The radio licence is granted to all channels of the selected band (2, 3, 4, 5, 2d or 5d) to be used throughout Finland. The total number of mobile stations is filled in under the main header of section 7, and the selected bands are marked in the table below (mark as many as needed). The channel width on bands 2, 2d and 5d is 12.5 kHz, and on bands 3, 4 and 5 it is 25 kHz. On all channels only mobile stations operating with radiated power levels up to 5 W ERP are allowed.

Analogue chan		channels	annels		Digital channels	
VHF band		UHF band		VHF bai	nd	UHF band
□ Band 2, 12 channels (MHz): 154.50625 154.51875 154.53125 154.54375 154.5625 154.56875 154.56875 154.58125 154.60625 154.61875 154.63125 154.63125 154.64375	<ul> <li>Band 3,</li> <li>8 channels (MHz):</li> <li>147.100</li> <li>152.050</li> <li>152.100</li> <li>160.250</li> <li>160.275</li> <li>160.300</li> <li>170.425</li> <li>170.450</li> </ul>	Band 4, 4 channels (MHz): 407.525 407.575 408.375 408.400	<ul> <li>Band 5,</li> <li>9 channels</li> <li>(MHz):</li> <li>443.125</li> <li>443.500</li> <li>443.550</li> <li>443.800</li> <li>445.200</li> <li>445.675</li> <li>458.250</li> <li>458.850</li> <li>458.900</li> </ul>	Band 20 8 chanr (MHz): 154.650 154.68 154.712 154.762 154.792 154.812 154.850 154.892	625 125 875 875 375 875 875 625	<ul> <li>Band 5d,</li> <li>8 channels</li> <li>(MHz):</li> <li>447.00625</li> <li>447.05625</li> <li>447.08125</li> <li>447.15625</li> <li>447.18125</li> <li>447.20625</li> <li>447.23125</li> <li>447.28125</li> </ul>
The common chann	The common channels are intended to be used only for voice communications related to lifting control in connection with business or profession. The radio licence is granted to all channels listed in the table below to be used throughout Finland. The number of mobile stations using common channels is filled in under the main header of section 7, and the channels are selected by ticking the corresponding box below. The width of the common channels is 25 kHz (for analogue use) or 12.5 kHz (for analogue or digital use), and on all channels only mobile stations operating with radiated power levels up to 1 W ERP are allowed. The centre frequencies of the common channels are listed in the table below, where each 25-kHz-wide channel can always be replaced with two 12.5-kHz-wide channels.					
with business or pr Finland. The number channels are select analogue use) or 1 radiated power leve below, where each	ofession. The radio l er of mobile stations ted by ticking the cor 2.5 kHz (for analogu els up to 1 W ERP ard 25-kHz-wide channe for the below listed c bile stations under th	icence is granted to a using common chan rresponding box belo e or digital use), and e allowed. The centre el can always be repla common channels to be main header of sec	all channels listed in nels is filled in under w. The width of the c on all channels only e frequencies of the c aced with two 12.5-k be used for lifting con ction 7).	the table belo the main hea common chan mobile statio common chan Hz-wide chan ntrol througho	w to be der of s nels is 2 ons oper nels are nels.	e used throughout section 7, and the 25 kHz (for rating with e listed in the table
with business or pr Finland. The number channels are select analogue use) or 1 radiated power leve below, where each	ofession. The radio l er of mobile stations ted by ticking the cor 2.5 kHz (for analogu els up to 1 W ERP ard 25-kHz-wide channe for the below listed c bile stations under th	icence is granted to a using common chan rresponding box belo e or digital use), and e allowed. The centre el can always be repla common channels to	all channels listed in nels is filled in under w. The width of the c l on all channels only e frequencies of the c aced with two 12.5-k be used for lifting co	the table belo the main hea common chan mobile statio common chan Hz-wide chan ntrol throughc encies,	w to be der of s nels is 2 ons oper nels are nels.	e used throughout section 7, and the 25 kHz (for rating with e listed in the table
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with business or pr Finland. The number channels are select analogue use) or 1 radiated power leve below, where each	ofession. The radio I er of mobile stations and by ticking the cor 2.5 kHz (for analogu els up to 1 W ERP and 25-kHz-wide channel for the below listed co bile stations under the Centre channel 44	icence is granted to a using common chan rresponding box belo e or digital use), and e allowed. The centre el can always be repla common channels to the main header of sec a frequencies, I width 25 kHz 2.850 MHz 2.875 MHz	all channels listed in nels is filled in under w. The width of the c l on all channels only e frequencies of the c aced with two 12.5-k be used for lifting con- ction 7). Centre freque channel width 442.84375 442.85625 442.86875 442.88125 442.89375 442.90625	the table belo the main hea common chan mobile statio common chan Hz-wide chan ntrol througho encies, 12.5 kHz MHz MHz MHz MHz MHz MHz MHz MHz	w to be der of s nels is 2 ons oper nels are nels.	e used throughout section 7, and the 25 kHz (for rating with e listed in the table
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with business or pr Finland. The number channels are select analogue use) or 1 radiated power leve below, where each	ofession. The radio I er of mobile stations and by ticking the cor 2.5 kHz (for analogu els up to 1 W ERP and 25-kHz-wide channel for the below listed co bile stations under the Centre channel 44 44 44	icence is granted to a using common chan responding box belo e or digital use), and e allowed. The centre el can always be repla common channels to ne main header of sec <b>a frequencies,</b> <b>I width 25 kHz</b> 2.850 MHz 2.875 MHz 2.900 MHz	all channels listed in nels is filled in under w. The width of the c l on all channels only e frequencies of the c aced with two 12.5-k be used for lifting co ction 7). Centre freque channel width 442.84375 442.85625 442.86875 442.88125 442.89375 442.90625 442.91875	the table belo the main hea common chan mobile statio common chan Hz-wide chan ntrol througho encies, 12.5 kHz MHz MHz MHz MHz MHz MHz MHz MHz MHz M	w to be der of s nels is 2 ons oper nels are nels.	e used throughout section 7, and the 25 kHz (for rating with e listed in the table
with business or pr Finland. The number channels are select analogue use) or 1 radiated power leve below, where each	ofession. The radio I er of mobile stations and by ticking the cor 2.5 kHz (for analogu els up to 1 W ERP and 25-kHz-wide channel for the below listed co bile stations under th Centre channel 44 44 44	icence is granted to a using common chan responding box belo e or digital use), and e allowed. The centre el can always be repla common channels to be main header of sec frequencies, width 25 kHz 2.850 MHz 2.875 MHz 2.900 MHz 2.925 MHz	all channels listed in nels is filled in under w. The width of the c l on all channels only e frequencies of the c aced with two 12.5-k be used for lifting con- ction 7). Centre frequencies (channel width) 442.84375 442.85625 442.86875 442.86875 442.89375 442.90625 442.91875 442.9125 442.93125 442.94375	the table belo the main hea common chan mobile statio common chan Hz-wide chan ntrol througho encies, 12.5 kHz MHz MHz MHz MHz MHz MHz MHz MHz MHz M	w to be der of s nels is 2 ons oper nels are nels.	e used throughout section 7, and the 25 kHz (for rating with e listed in the table



<b>7.5 COMMON CHANNELS FOR TETRA DMO (DIRECT MODE OPERATION) TO BE USED</b> <b>THROUGHOUT FINLAND</b> The common channels are intended to be used only for communications related to business or profession. The radio licence is granted to all channels listed in the table below to be used throughout Finland. The number of mobile stations using common channels is filled in under the main header of section 7, and the channels are selected by ticking the corresponding box below. The width of the common channels is 25 kHz, and only mobile stations operating in accordance with the TETRA standard and using radiated power levels up to 5 W ERP are allowed. The centre frequencies of the common channels are listed in the table below				
I am applying for the below listed common channels for TETRA DMO (Direct Mode Operation) to be used throughout Finland (fill in the number of mobile stations under the main header of section 7).   Centre frequencies of DMO channels   416.2375 MHz   7.6 COMMON CHANNELS FOR DATA TRANSMISSION AND TRANSMITTING DGNSS (DIFFERENTIAL GLOBAL NAVIGATION SATELLITE SYSTEM) SIGNAL TO BE USED THROUGHOUT FINLAND The common channels are intended to be used only for data transmission and transmitting DGNSS (Differential Global Navigation Satellite System) signal in connection with business or profession. The radio licence is granted to all channels of the selected group (1, 2 or 3) to be used throughout Finland. The total number of mobile stations is filled in under the main header of section 7, and the selected groups are marked in the table below (mark as many as needed). On all channels of all groups it is allowed to use mobile stations operating with channel width 12.5 kHz or 25 kHz. The				
allowed purpose of use and the maximu Group 1, 5 channels: 430.025 MHz 430.050 MHz 430.075 MHz 430.100 MHz 430.125 MHz Purpose of use: Data transmission or transmitting DGNSS signal. Radiated power max. 0.5 W ERP.	Image: constraint of the second systems         Group 2,         4 channels:         430.150 MHz         430.200 MHz         430.225 MHz         430.250 MHz         Purpose of use:         Transmitting DGNSS         signal or sales demonstration of data         transmission systems.         Radiated power max. 10 W ERP.	<ul> <li>b has been listed in the table below.</li> <li>Group 3, 4 channels: 430.300 MHz 430.325 MHz 430.350 MHz 430.375 MHz</li> <li>Purpose of use: Data transmission or transmitting DGNSS signal.</li> <li>Radiated power max. 10 W ERP.</li> </ul>		