



المملكة الأردنية الهاشمية

The Hashemite Kingdom of Jordan
Telecommunications Regulatory Commission
Radio Spectrum Management Department

Application Form
For

RADIO FREQUENCY LICENSE FOR
SATELLITE
EARTH STATION

Telecommunications Regulatory Commission (TRC)

Tel. (962-6)-550 11 20
Fax (962-6)-586 36 41/42
P.O. Box: 850967
Amman 11185 Jordan

Seventh circle, third exit to the right from
Airport Highway, Ibrahim El-Bajori street
<http://www.trc.gov.jo>
E-mail: trc@trc.gov.jo
spectrum@trc.gov.jo

I HEREBY APPLY FOR (Make an X in the appropriate box(es))

1-New License

2-Renewal of my Licence* (No need to fill the technical information)

3-Amend My License

Check one or more boxes that correctly describes the purpose of this Amend

<input type="checkbox"/>	request authority to add channel(s)
<input type="checkbox"/>	request authority to change channel(s)
<input type="checkbox"/>	request authority to relocate a transmitting site
<input type="checkbox"/>	request authority to increase EIRP by more than 1 dB in any direction
<input type="checkbox"/>	request authority to increase antenna radiation center height above ground
<input type="checkbox"/>	request authority to increase overall height of antenna structure
<input type="checkbox"/>	request authority to change antenna polarization
<input type="checkbox"/>	request authority to change transmitter emission type or bandwidth
<input type="checkbox"/>	change antenna horizontal radiation pattern
<input type="checkbox"/>	change azimuth of main horizontal lobe of radiation
<input type="checkbox"/>	add or change visual frequency offset
<input type="checkbox"/>	decrease EIRP
<input type="checkbox"/>	change antenna radiation center height
<input type="checkbox"/>	increase overall height of antenna above ground or building
<input type="checkbox"/>	decrease overall height of antenna structure
<input type="checkbox"/>	delete a channel(s)
<input type="checkbox"/>	Change my station call sign
<input type="checkbox"/>	Change my name on my license to my new name(Applicant's above)
<input type="checkbox"/>	Change the sites and coordinates of my Radio Stations
<input type="checkbox"/>	Change of mailing Address to above address
<input type="checkbox"/>	correct erroneous information on license not involving a major change (submit an Annex if nature of correction(s) is not listed here).
<input type="checkbox"/>	other facilities changes, please specify (submit Annex explaining changes)

Name: _____.

Former Name (if Changed) _____

I certify that: All statements and attachments are true, complete and correct to the best of my knowledge and belief and are made in good faith;

Date _____

Signed: _____

* Renewal means to renew the current license without any changes.

PURPOSE OF Applicant's OTHER APPLICATIONS PENDING (FOR TRC USE ONLY):

Previous Applications (If applicable)		
Application Date	Application Result	Remarks

Current License Information (If applicable)							
Type of License	License's Date	License's Current Status					Remarks
		Valid	Terminated	Expired	Revoked	Modified	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Duration

Please state the duration of the license being applied for;

- Annual License
- Short-Term (Please state required duration):-.....

Section A

Applicant Details

Company Name

Address

.....

.....

Telephone number

Fax. Number

Name of contact person

Company registration

Web Site/ E-mail

Shareholding structure

.....

.....

Relevant experience and technical expertise (including key staff and their experience)

.....

.....

.....

.....

Type of service data, video, audio, phone, etc. Is it for own use or use of third parties?

.....

.....

.....

.....

Details of financial resources
.....
.....
.....
.....

Billing address.....
.....
.....

DECLARATION

I declare that the information given on this form and other information given in support of this application is correct and complete to the best of my knowledge.

Signed..... Date

Name (BLOCK LETTERS).....

Status.....

Official Stamp (Applicant official stamp):.....

Note:

For each individual station the information in the following section should be filled out individually and attached as required.

Section B

Number of earth station Licenses applied for:

Name of the Satellite Network.....

Note: Please indicate and attach the ITU circular(s) which state that this space station is coordinated with the Administration of Jordan to cover the Jordanian territories.

Attachment No.:

Section C

Equipment information

Equipment designation.....

Model.....

Serial No.....

Type of antenna.....

Size of antenna.....

Characteristics of the transmitting antenna

Maximum isotropic gain: dBi..... 3dB beamwidth.....

Antenna radiation pattern diagram, as attachment No.

.....

Note: Please attach a soft copy of the radiation pattern as diagram and text file.
For each type of modulation indicate; total peak envelope power and power density per Hz supplied to the input of the antenna.

Designation Emission	Total peak power dBW	Maximum power Density Dbw/Hz

Max. Aggregate Power (Transmit): <input type="text"/> <input type="text"/> <input type="text"/> dBW EIRP: <input type="text"/> W

What is the off-axis spurious EIRP in dBpW/ 100 kHz, and in dBpW/ 1Hz from the Earth Station, for all off-axis angles greater than 7° (include documents).

Off-axis spurious EIRP **dBpW/ 100 KHz**

Off-axis spurious EIRP **dBpW/ 1 Hz**

Characteristics of the receiving antenna

Maximum isotropic gain (dBi)..... 3dB beamwidth.....

Receiving system noise temperature (degrees Kelvin).....

Antenna radiation pattern diagram attached, see figure No.....

Section D

Station Details

On which date will the Station operations start?.....

Name of the SATELLITE network.....

Equipment designation.....

Address of the earth station network

.....

.....
.....

Geographical Co-ordinates.....

Associated Space Station.....

Nominal Orbit Longitude.....

Operating angles.....

What is the height of the ground above mean sea level?.....

What is the height of the center of the antenna above mean sea level?.....

1: Horizontal (Site Survey) Diagram: Attachment Number <input type="text"/> <input type="text"/>	
2: Elevation Angle (of antenna): <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> Degrees	3: Operating Azimuthal Angles From: Degrees <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> East of true North To: Degrees <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> East of true North

Station Reference Name:

Location Name:.....

Intended date of bringing Earth Station into operation:

D **M** **Y**

Longitude:

Degrees **E**

Latitude:

Degrees **N**

Site Height (a.s.l) Meters

Antenna Height (a.g.l) Meters

Section E

Transmitting

Satellite receiving beam designation.....

Characteristics common to the following list of assigned frequencies

Assigned frequency band.....

Modulation Type.....

Emission transmitted on the assigned frequencies listed below:

Designation of Emission

List of assigned frequencies having the above common characteristics;

Transponder or spot frequency	Assigned Frequency/GHz	BW(kHz)

Earth Station Transmit & Receive Details:

1: Transmit Frequency	Bandwidth	2: Emission designation (Transmit)							
(GHz)	(kHz)	Bandwidth		Emission			Designation		
_____	_____	□	□	□	□	□	□	□	□
_____	_____	□	□	□	□	□	□	□	□
_____	_____	□	□	□	□	□	□	□	□
_____	_____	□	□	□	□	□	□	□	□
_____	_____	□	□	□	□	□	□	□	□

2: Receive Frequency	Bandwidth	2: Emission designation (Receive)							
(GHz)	(kHz)	Bandwidth		Emission			Designation		
_____	_____	□	□	□	□	□	□	□	□
_____	_____	□	□	□	□	□	□	□	□
_____	_____	□	□	□	□	□	□	□	□
_____	_____	□	□	□	□	□	□	□	□
_____	_____	□	□	□	□	□	□	□	□

Network Control And Monitoring center Details

ASSOCIATED SPACE STATION

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NOMINAL ORBITAL LONGITUDE

Degrees						E/W

ADRESS OF THE NETWORK CONTROL AND MONITORING CENTER ("NCMC") OR EQUIVALENT FACULTY ; OR

GEOGRAPHICAL COORDINATES

Longitude						
Degrees	E	Min	Sec			

Latitude						
Degrees	N	Min	Sec			

Telephone contact number in the event of an emergency _____

Section F

Modulation Characteristics

For any type of modulation please (where applicable) indicate the characteristics of energy dispersal:

.....

.....

.....

.....

FM

For a carrier frequency modulated by a frequency division multi-channel telephone baseband (FDM-FM) or by a signal that can be represented by a multi-channel telephony baseband frequency.

What are the lowest and highest frequencies of the baseband and the arms frequency deviations of the baseband and the test tone as a function of baseband frequency?

Lowest _____ Highest _____ Deviations _____

PM

For a carrier phase-shift modulated by a signal

Please indicate the bit rate and the number of phases

Bit rate _____ Number of phases _____

Section G

Receiving

Satellite transmitting beam designation.....

Characteristics common to the following list of assigned frequencies:

Assigned frequency band.....

Emission received on the assigned frequencies listed below:

Designation of Emission

List of assigned frequencies having the above common characteristics

Transponder or Spot Frequency	Assigned Frequency

Guidance Notes:

Associated Space Station-----Indicate the name of the associated space station with which communication is to be established.

Nominal Orbital Longitude-----Enter the Nominal longitude of the orbital position of that of the satellite expressed in decimal degree E or W (the value should not exceed 180 degree)

Section C

A separate Section C is required for each terminal that has different characteristics.

Equipment Designation-----Enter designator by which this earth station terminal configuration will be known on this network. This designator will be used when registering the location of a terminal using section D of this form.

Type of Antenna-----i.e. Cassegrain etc.

Maximum Isotropic Gain-----Enter the gain (G_i ; see RR 154) of the antenna in the direction of maximum radiation, expressed in dBi.

Beamwidth----- Enter the total beamwidth at the mean half-power points of the main lobe, expressed in decimal degrees. Describe in detail in attachment if not symmetrical.

Radiation Pattern-----If a reference radiation pattern cannot be indicated by one of the symbols below, or the measured radiation diagram of the antenna is available, give the relevant information in an attachment. If an attachment is provided enter a figure number identifying its presence.

Symbol	Description of the Radiation Pattern
REC-465	Current version of ITU-R Recommendation 465; “Reference earth station radiation pattern for use in co-ordination and interference assessment in frequency range form 2 to 30 GHz
REC-580	Current version of ITU-R Recommendation 580; “Radiation diagrams for use as design objectives for antennas of earth stations operating with geostationary satellite”.
AP28	Point 4, Annex II of Appendix 28 Note; This radiation diagram is identical to that in Annex III to Appendix 29
Designation of Emission	Is made up of three parts, bandwidth (four characters), emission (three characters) and description of emission (two characters). This makes a nine-character emission code. See Guide to Class of emission RR Article 4. E.g. 30MOF8FHN is 30MO = 30MHz, F = Frequency modulated, 8 = Composite system with one or more channel containing analogue information, F = Television (video), H = Sound of broadcasting quality (stereophonic or quadrasonic), N = No multiplexing employed.
Total Peak Power	Enter the appropriate sign(+ or -) and the value of the total peak envelope power (RR151) expressed in dBW for the corresponding emission

Maximum Power Destiny	Enter the appropriate sign (+ or -) followed by the value of the maximum power density per Hertz (expressed in dBW/Hz) supplied to the input to the antenna averaged over the worst 4KHz band. For narrow band carriers with a necessary bandwidth (RR146) less than the reference bandwidth, the peak power should be averaged over the reference bandwidth (4KHz) to obtain this value of maximum power density. The most recent version of ITU-R Report 792 should be used to the applicant in calculating the maximum power density per Hz.
Receiving system noise temperature	Enter the value of the lowest total receiving system noise temperature expressed in degrees Kelvin, referred to the output of the earth station antenna under clear sky conditions.
Section E	All emission are to be contained in the frequency band (...) GHz
Satellite receiving beam designation	<p>Enter the receiving beam designation by a symbol consisting of up to three characters. For practical reasons, there are different approaches for the designation of the beam. It may consist of:-</p> <ul style="list-style-type: none"> (a) Numbers such as 1,2,3, etc. which refer to the number of the figures representing the corresponding antenna gain contour published in the relevant special section; or (b) Numbers such as 195, which identify a beam having a maximum gain of 19.5dB; or (c) A symbol of up to three letters (or a letter and a figure), which is used to represent the abbreviated beam name such as G for global, NWQ for north west quadrant, WH for west hemisphere, Z1 for zone 1, 0 for omnidirectional. <p>For a steerable, the last character shall always be the letter "R".</p>

Assigned frequency band Enter the bandwidth of the assigned frequency band defined in RR141, expressed in KHz, the assigned frequency band should in no case exceed the bandwidth of a single associated satellite transponder.

Designation of emission Is made up of three parts, bandwidth (four characters) emission (three characters) and description of emission (two characters), this makes a nine character emission code. See guide to class of Emission RR Article 4; i.e. 30MOF8FHN is 30MO=MHz, F= Frequency modulated, 8= composite system with one or more channels containing analogue information, F= Television (video), H= Sound of broadcasting quality (stereophonic or quadraphonic), N= No multiplexing employed.

Assigned Frequency If the transponder or a spot frequency within a transponder enter letter T or S as appropriate. Enter the center of the frequency band to be used, in KHz inclusive, in MHz above 28000 KHz 10500 MHz inclusive, and in GHz above 10500 MHz

Section G

Satellite transmitting beam designation Enter the receiving beam designation by a symbol consisting of up to three characters, For practical reasons, there are different approaches for the designation of the beam. It may consist of:

- (A) Numbers such 1,2,3, etc. which refer to the number of the figure representing the corresponding antenna gain contour published in the relevant Special Section; or
- (B) Numbers such 195, which identify a beam having a maximum gain of 19.5dB; or
- (C) A symbol of up to three letters (or a letter and a figure), which is used to represent the abbreviated beam name such as G for global, NWQ for north west quadrant, WH for west hemisphere, Z1 for zone 1, O for omnidirectional.

For a steerable, the last character shall always be the letter "R"

Assigned frequency band	Enter the bandwidth of the assignment frequency band as defined in RR141, expressed in KHz, the assigned frequency band should in no case exceed the bandwidth of a single associated satellite transponder.
Designation of emission	Is made up of three parts, bandwidth (four characters), emission (three characters) and description of emission (two characters). This makes a nine-character emission code. See guide to Class of Emissions RR Article 4; i.e. 30MOF8FHN is 30MO=MHz, F = Frequency modulated, 8 = composite system with one or more channels containing analogue information, F = Television (video), H = sound of broadcasting quality (stereophonic or quadrasonic), N = No multiplexing employed.
Assigned Frequency	If the transponder or a spot frequency within a transponder enter letter T or S as appropriate. Enter the center of the frequency band to be used, in KHz inclusive MHz above 28000 KHz 10500 MHz inclusive, and in GHz above 10500 MHz.

Note : All applicants, must abide to the following conditions:

- A TRC Declaration form in [Annex 1](#) must be completed.
- A TRC Safety Declaration form in [Annex 2](#) must be completed.
- A TRC Emissions Declaration form in [Annex 3](#) must be completed

Annex 1

Declaration ** To be completed by all applications **

Please complete the rest of the application before signing this declaration

To the best of my knowledge and belief the particulars given in this document are correct and complete.

I have read the application Notes and agree to supply the necessary information with my application.

I, (Name & Title) _____

Position in Company _____

For and on behalf of _____ (Name of Company) located at Address _____

Do solemnly and sincerely declare that the following telecommunication equipment:

Manufacturer _____ Model No. _____

imported from :

Company _____

Address _____

Country _____

Contact Person (if possible) _____

Tel _____ Fax _____

E-mail _____

Complies with _____, and _____
_____, and _____

Standards and shall ensure that only equipment from the above declared source of import will be used as part of earth stations to be used in Jordan.

I shall re-apply for type approval if the source of import of the equipment is different from the one declared above.

Signature & Name for and on behalf of (Name of Company)

Date

Annex 2

Safety Declaration	** To be completed by all applications **
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I (We), Declare that I (We) have the safety test result relating to the radio communication equipment mentioned in this form as identified overleaf .

I (We) declare on my (our) sole responsibility that the radio communication equipment is in conformity with the following safety standard(s) and/or normative document(s) :

_____, and _____
 _____, and _____

Telecommunications equipment information :	
Manufacturer _____	Model No. _____
imported from :	
Company _____	
Address _____	
Country _____	

(Name & Title) _____

Position in Company _____

For and on behalf of _____ (Name of Company) located at Address _____

 Signature & Name for and on behalf of Date

- Notes:
1. Please submit the application form to the above address together with the following:
 - a) An application fee (where required),
 - b) All items specified in Section 3 or 4,
 2. Application without the submission of complete documents will not be accepted.
 3. Payment should be made by a crossed cheque/cache payable to "Telecommunications Regulatory Commission" or "TRC ". *The application fee is not refundable.*
 4. TRC reserves the right to reject any equipment .

This application form is intended to provide TRC with all the necessary information needed for evaluation purposes. Any item , phrase condition ,statement ...etc indicated in this application will not considered as obligatory for TRC if it is not fully comply with the TRC's relevant regulations, instructions and rules currently adopted by TRC or are not based on an official statement by TRC . In any case any of these information (items, phrases , conditions, statements...etc) indicated in the application or provided by the applicant are obligatory to the applicant but not for the TRC.

Annex 3

Declaration	** To be completed by all applications **
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Please complete the rest of the application before signing this declaration

I (We) declare on my (our) sole responsibility that the concerned product in this application is conformity with the following:

1. Any possible method should be done to enable the most efficient use of spectrum, such as Bandwidth expansion, amplitude modulation and single-sideband techniques.
2. Frequency tolerance of the center frequency used by the concerned product must comply with the ones specified in table1.
3. Maximum spurious emission power level from the concerned product should be within the range specified in table2.
4. Frequency tolerances and levels of unwanted emissions should be at the lowest value which the service permits.
5. In case of using Bandwidth-expansion techniques, power spectral density should be employed in such manner that ensures efficient use of the spectrum.
6. Technical parameters of the receiving station should be considered so as to comply with the class of emission concerned.
7. Interference caused by a transmitter located at a close distance from the receiver should be minimized using the appropriate performance characteristic & parameters.

Signature & Name for and on behalf of (Name of Company)

Date

Commitment

I, the undersigned, acknowledge that I will comply with the following commitments upon getting a radio station license:

1. Submission of this application within a maximum of one year from its date, otherwise the application will be cancelled.
2. Importing the equipment during the license validation time, otherwise the approval will be cancelled.
3. Using the equipment as it is described in the license.
4. Not using any kind of unclear messages, coded messages over the radio equipment.
5. Using the equipment for the purpose that it is licensed for.
6. Not allowing unauthorized persons to use the radio equipment.
7. Not transferring the ownership of any of the radio equipment to other party unless getting an official approval issued from TRC.
8. Allowing any official team to inspect on the radio stations at any time to check it's technical specifications, it's conformation with the license and it's operators.
9. Suspend the using the radio stations in case the authorized entities asked for it.
10. Reporting to the Telecommunications Regulatory Commission and other relevant governmental entities in case of loosing any equipment or reporting to the T.R.C upon destroying, storing, or re exporting any equipment.
11. Returning back the radio equipment-carrying permit to the Telecommunications Regulatory Commission when the mission of the persons that are allowed to operate the equipment is completed.
12. Providing the names of the persons that operate the equipment to the Telecommunications Regulatory Commission in case of license renewal, and the names of the new persons that will receive equipment or the persons who are dismissed from using the equipment.
13. Providing the Telecommunications Regulatory Commission with a statement includes types, serial numbers and numbers of the radio equipment and a written certificate states that do not have except the mentioned equipment when asking for license renewal.
14. Providing the Telecommunications Regulatory Commission with a reinforcement letter from the governmental entity that has the contract with, and a photocopy of that contract.
15. Providing the Telecommunications Regulatory Commission with a customs certificate includes the number, brand, type and serial number of the equipment upon entering or exiting them to the country.
16. Shouldering any responsibility that results from not complying with any part of this commitment.

Signature of applicant-----

Name (BLOCK CAPITALS)-----**Date**-----

If you are signing on behalf of a Company or organisation state:-

Name of Company/Organisation -----

Position-----

Company/Organisation Stamp

Return this application form to: -

**Telecommunications Regulatory Commission
Radio Spectrum Management Department
Amman**

Tel. (962-6)-5862020
Fax (962-6)-5863641/42
P.O. Box: 850967
Amman 11185 Jordan

Directions:
Seventh Circle, Ibrahim El-Bajori Street
<http://www.trc.jo>
[E-mail: trc@trc.jo](mailto:trc@trc.jo)
spectrum@trc.jo