

# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



## Licensee details

Customer ID	1217003
Licensee	Iridium Australia LLC
Trading name	Iridium Australia LLC
Licensee address	L35, Tower Two, International Towers Sydney 200 Barangaroo Avenue, Barangaroo, NSW 2000

## Licence details

Licence service	Space
Licence subservice	Space
Licence number	10309909/1
Date of issue	03/01/2023
Date of effect	03/01/2023
Date of expiry	31/12/2024

## Licence conditions

Your licence is subject to conditions set out in the *Radiocommunications Act 1992*. Your licence may also be subject to such other licence conditions as determined by the ACMA (in licence condition determinations) from time to time, and is also subject to special conditions as detailed on this licence.

The conditions that are imposed on a licence vary according to the type of licence issued, the service being operated and the section of the *Radiocommunications Act 1992* under which the licence has been issued. For further information about the conditions that apply to your licence, please contact the ACMA (see contact details below).

### **Rights of appeal**

A decision by the ACMA to impose further conditions or revoke or vary the conditions of your licence may be reviewable. If you are affected by, and dissatisfied with, such a decision you may apply to the ACMA to have the ACMA reconsider the decision under section 288 of the *Radiocommunications Act 1992*.

An application for reconsideration must state the reasons for the request, and should be sent to the Customer Service Centre, Australian Communications and Media Authority, PO Box 78, Belconnen, ACT, 2616. Applications for review of decisions can be made using the R051 - Application for review of Decision form, available on the ACMA website.

### **Important**

An application for the ACMA to reconsider a decision to impose or vary licence conditions must be made to the ACMA within 28 days of the day on which you are informed of the decision. An application for reconsideration made after that time may not be accepted.

## ACMA contact details

Customer Service Centre  
PO Box 78  
BELCONNEN ACT 2616

Telephone: 1300 850 115  
Email: [info@acma.gov.au](mailto:info@acma.gov.au)

ACMA website: [www.acma.gov.au](http://www.acma.gov.au)

Certain information contained in this licence record will be disclosed in the Register of Radiocommunications Licences (RRL), established and maintained pursuant to Part 3.5 of the *Radiocommunications Act 1992*.

## **Special Conditions applying to licence no.: 10309909/1**

Transmission of the space station in the downlink frequency band 1616.0045-1626.4955 MHz must be in accordance with the ITU Radio Regulations No. 5.28 (i.e. shall not cause harmful interference to and cannot claim protection from harmful interference from stations of primary services) - the provision under which the frequency assignment was recorded in the Master International Frequency Register.

This condition does not apply to the use of Iridium user terminals for emergency purposes when either the global emergency services number (112) or the Australian emergency services number (000) is dialled by the user.

The Licensee shall prevent Iridium space station from causing harmful interference to radio astronomy observations made by the Australia Telescope National Facility (ATNF), or the Canberra Deep Space Communications Complex (CDSCC), or the Observatories operated by the University of Tasmania (UT), in the hydroxyl frequency band of 1610.6-1613.8 MHz.

The Licensee must not cause harmful interference to Australian Radio Astronomy Services.

This licence authorises transmissions to Australia from Iridium satellite system HIBLEO-2 where the satellite system being operated in accordance with:

- any coordination agreements reached as a result of the ITU frequency coordination process initiated by the United States of America, as in effect from time to time; and
- relevant licences, orders and authorisations made by the Federal Communications Commission of the United States of America, as in effect from time to time.

Transmission of the space station in the downlink frequency band 1616.0045-1626.4955 MHz must be in accordance with the ITU Radio Regulations Resolution 739 as in effect from time to time.

## **Advisory Notes applying to licence no.: 10309909/1**

Conditions applicable to the operation of Space Station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page ([www.acma.gov.au](http://www.acma.gov.au)).

The Canberra Deep Space Communications Complex is located at latitude 35° 23' 54.46" S, longitude 148° 58' 39.61" E. The Observatories operated by the University of Tasmania are located at Mt Pleasant, Hobart (latitude 42° 48' 12.92" S, longitude 147° 26' 25.86" E).

The ATNF is made up of the following radio astronomy observatories:

- Parkes Observatory, Parkes, (latitude 32° 59' 54.25" S, longitude 148° 15' 48.65" E);
- Paul Wild Observatory, Narrabri, (latitude 30° 18' 46.40" S, longitude 149° 33' 0.44" E);
- Mopra Observatory, Coonabarabran, (latitude 31° 16' 04.12" S, longitude 149° 05' 58.72" E).

The potential for harmful interference to be caused to Australian Radio Astronomy Services by the licensee's operations will increase with higher volumes of traffic over the HIBLEO-2 satellite system. When applying to renew this licence, Iridium will be expected to demonstrate to the ACMA that it has reached agreement with the Australian Radio Astronomy Service on the steps necessary to prevent harmful interference to Australian Radio Astronomy Services.

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Renewal for operation beyond 31 December 2020 is subject to the outcome of a review of Iridium authorisations in Australia, taking into account decisions made in accordance with Resolution 359 (Rev.WRC-15) at WRC-19.

The Murchison Radioastronomy Observatory (MRO) (latitude 26° 42' 10.4" S, longitude 116° 39' 37.0" E) hosts the Australian Square Kilometre Array Pathfinder (ASKAP) operating in the band 700-1800 MHz and the Murchison Widefield Array (MWA) operating in the band 80-300 MHz.

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Station 1:

#### Area wide details

Area ID	1
Area name	Australia-wide

#### Transmitter details

Assigned frequency	1.62213750 GHz
Bandwidth	8.715000 MHz
Freq. assign. ID	0001970695
Transmitter power	18.00 W
EIRP	18.00 W
Emission designator	41K7Q7W

#### Antenna details

Antenna ID	1
Antenna polarisation	CR - Right-hand circular or direct
Antenna azimuth	
Antenna type	Unknown antenna type, size or specifications-