



## Doing business with us.

Quality Ground Network Access  
for your Satellite Assets

To assist you in doing business with Capricorn Space, we have compiled the following FAQ and outlined information that will assist in understanding the what, why and how of the Australian Ground Network.

# Funded. Committed. Energised.

Operating in the east and west of Australia  
Capricorn Space provides southern hemisphere  
access to LEO, MEO and GEO missions



Maximise the value of  
your satellite data



Expansive southern  
hemisphere coverage



Achieved 2019  
target

## What does Capricorn Space provide?

We are building a satellite ground network in the east and west of Australia that has been purposely designed to support the SmallSat and burgeoning NewSpace markets. Our sites are ideally located for servicing a range of satellite services and orbits and the infrastructure has been purposely developed with consideration to achieving high availability and future growth.

## What is Capricorn Space's business objective?

Our objective is to provide Ground Segment as a Service to SmallSat and emerging NewSpace systems enabling operators to transfer vital data as their satellites pass over our southern hemisphere sites. Capricorn Space offers Retail and Landlord service models where users can either purchase airtime on our S/X-Band system or install their own equipment at our sites and operate remotely. We also offer a Hybrid model enabling users to interconnect their indoor equipment with our antennas.

## Introducing the Australian Ground Network - West

Capricorn Space commenced operations at its Australian Ground Network - West (AGN-W) near Geraldton in Western Australia in October 2019. Phase 1 development comprises 6 antenna pads (2 allocated to Capricorn Space's Retail service and 4 to Landlord services) as well as a purpose built environmentally controlled Equipment Building.

Core infrastructure includes reliable power, high speed communications, network integrity and site security as well as maintenance and specialist (Level 2) support.

The AGN-W can be rapidly expanded to support additional antennas and indoor equipment.

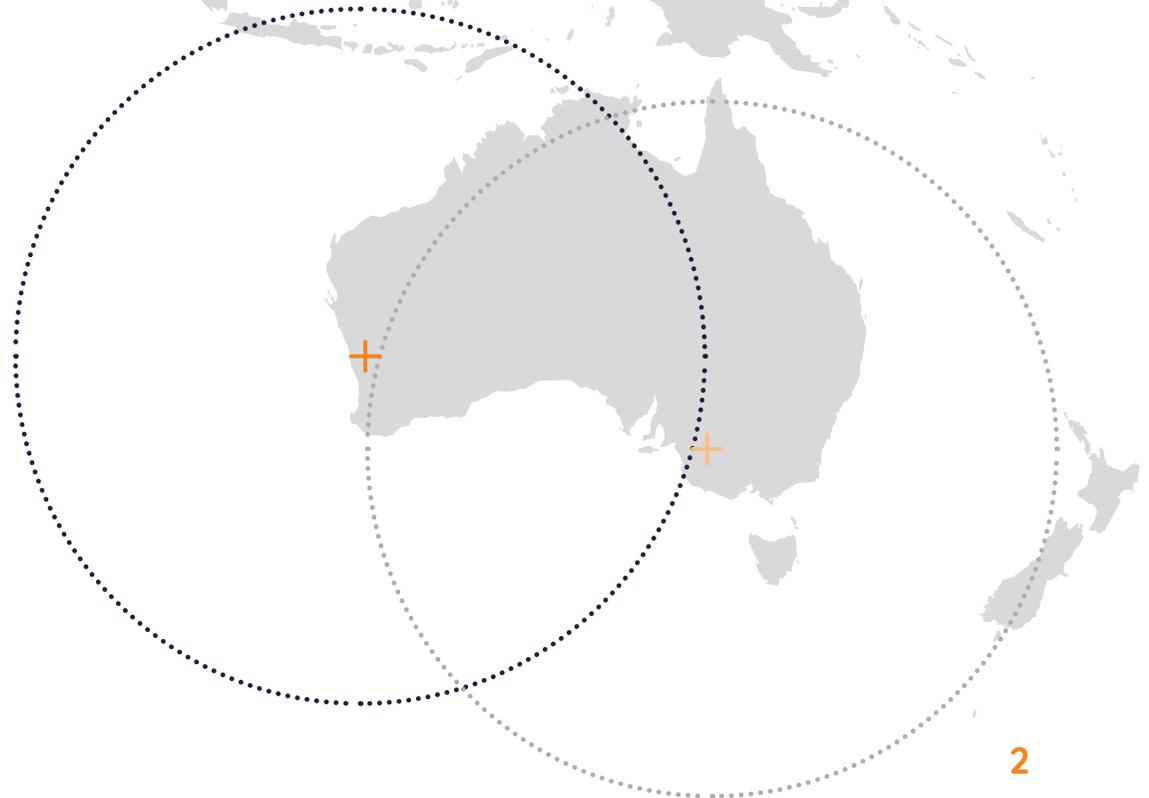
## Why should I use Capricorn Space's capability?

Being Australian based, our ground stations are located in the southern hemisphere where very few ground stations exist. This has the advantage of extending coverage opportunities and reducing latency for time-sensitive data - enabling crucial information to be delivered *asap*.

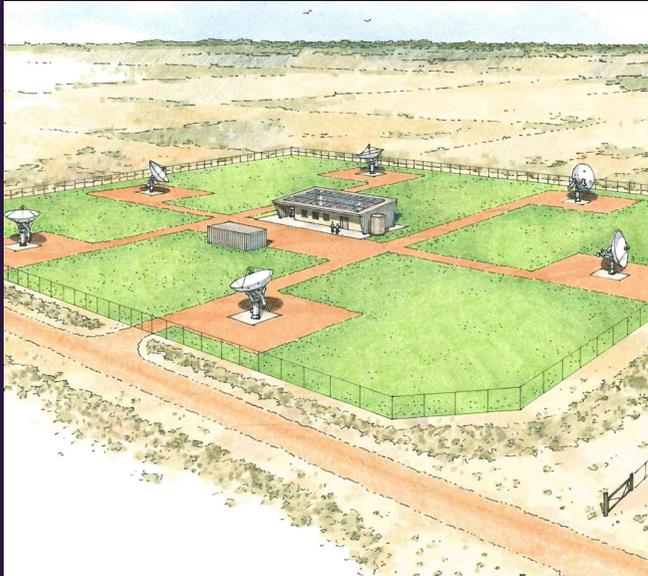
Our site in Western Australia offers many benefits including a satellite-friendly radio quiet zone, full sky visibility, clear sky conditions and access to essential power and communications. A radio survey was conducted in December 2018 and confirmed the RF suitability of the site.

**AGN-W coordinate of  
29.010417°S, 115.341708°E**

AGN-E site selected with development scheduled to commence in late 2020



# AGN-W Site Construction



# What Service Models does Capricorn Space provide?

We provide Retail, Landlord (BYO Antenna and Indoor Equipment) and Hybrid (BYO Indoor Equipment only) service models which can be tailored to meet individual client needs.

## Retail

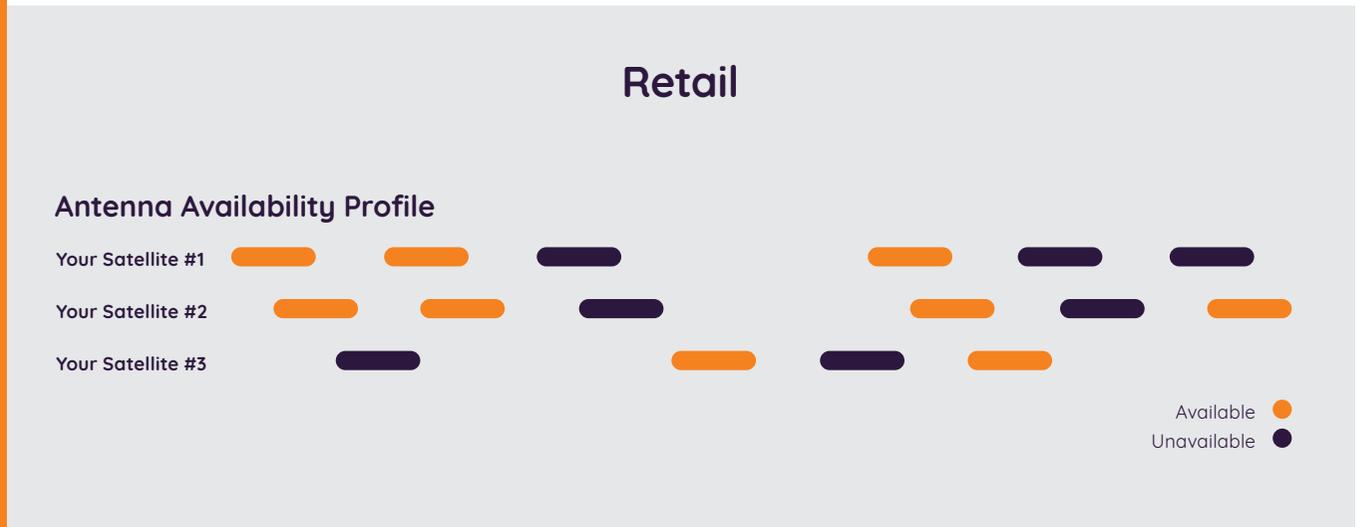
Capricorn Space communicates with your satellite using its own antennas and delivers your data as required. We sell airtime on our S and X-Band network. Simply access our portal, nominate your satellites of interest and select the passes you require.

## Landlord

Capricorn Space provides you with a pad for your antenna and rack space within our Equipment Building for your baseband and network equipment. We provide power, communications, security and on-going maintenance. We can also provide specialist technical and Out of Hours support, if needed. Ideal for operators wanting to establish their own remote capability at our site.

## Hybrid

Simply install your own bespoke Customer Furnished Equipment (CFE) in our Equipment Building and access your satellites using our antennas. Suited to operators who wish to utilise their own modems and network equipment.



## What additional services does Capricorn Space offer?

We understand that many clients require additional services and therefore offer Regulatory, Maintenance, Support and Enhanced Security options.



### Regulatory

As part of our service offering, Capricorn Space will use its proven Regulatory skills to secure the all-important radiocommunications license required by the Australian Communications and Media Authority. Already Capricorn Space has secured licenses in the UHF, S and X-Bands for both our eastern and western sites.



### Maintenance

Capricorn Space will ensure that your equipment is maintained according to your planned maintenance schedule. At the corporate level, we will ensure that all supporting infrastructure is serviced and operating according to its operational requirement.



### Support

Capricorn Space will provide out of hours support to third party equipment (CFE racks and antennas) to assist you resume operations as early as possible.

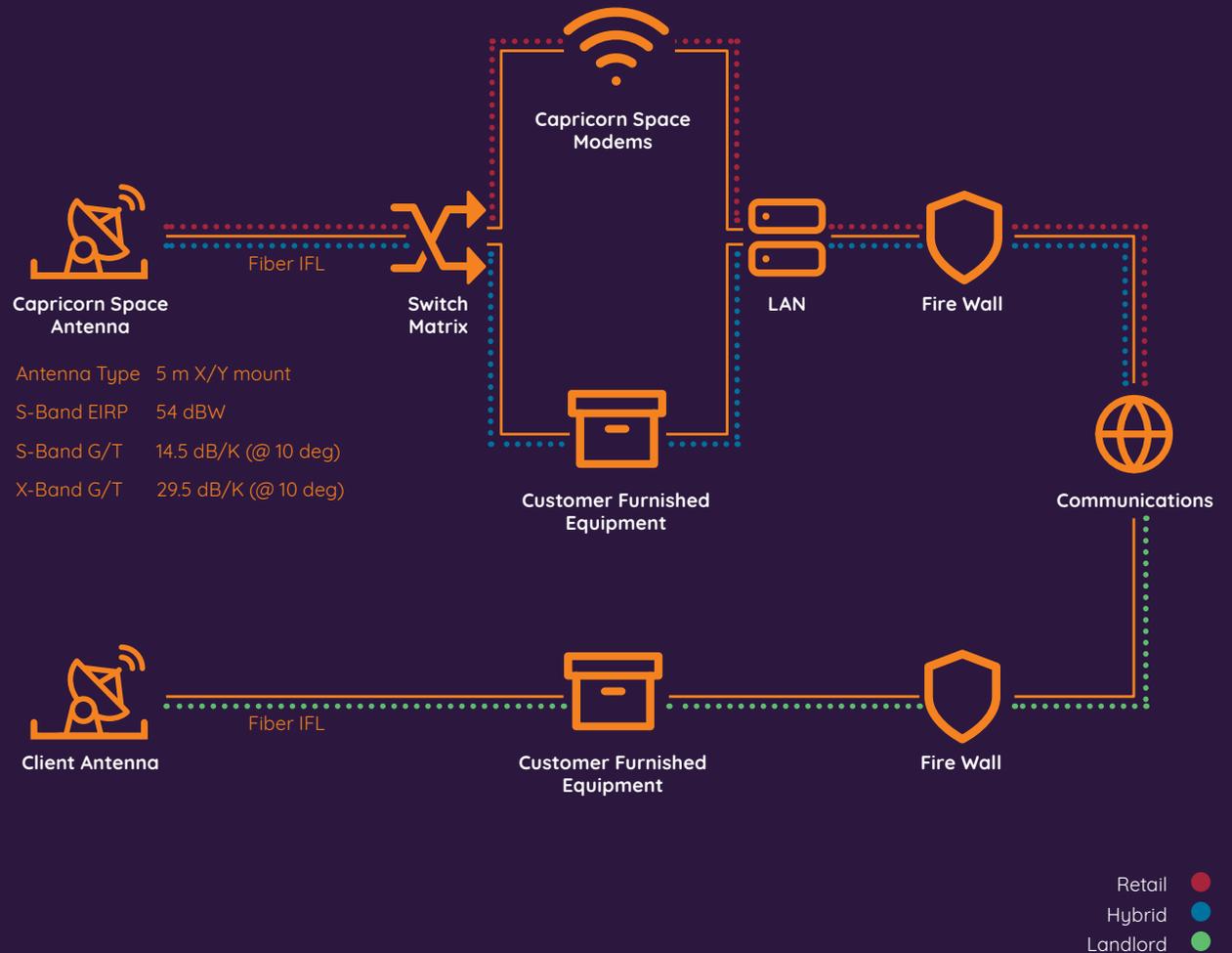


### Security

In the event additional physical and network security is required, Capricorn Space will work with you to achieve the right outcome.

## How does the Capricorn Space ground network function?

The diagram below illustrates the main signal flow for each of the three Service Models.



# How do I pay for this service?

Firstly, we have done our best to keep it simple.

## Retail

- Client is charged per minute for utilising our system with discounts for volume usage
- Includes 50 Mbps communications service (higher datarates available)
- Includes power costs

## Landlord

- Client incurs a fixed monthly fee for leasing antenna pad and rack space
- Communications fee is charged per our service provider's rate plus a Capricorn Space management fee
- Power fee is charged at our service provider's rate plus a Capricorn Space management fee. Metering of pad and racks will ensure you pay for only the power you use

## Hybrid

- Client is charged per minute at a reduced Retail rate
- Other charges per Landlord model with discounts for volume

## Additionally

Capricorn Space can provide supplementary services, including:

- Regulatory – securing and maintaining licenses from the Australian national Regulator (ACMA) to operate service
- Maintenance – planned support of equipment (suited to Landlord and Hybrid clients)
- Support – unplanned support of equipment (suited to Landlord and Hybrid clients)
- Additional Security – increased physical and network security to meet client's bespoke requirements

## How do I establish a Service Agreement?

Contact Capricorn Space for a copy of our Service Agreement form. Advise the service you require and obtain a quotation.

### I still have a question!

Please email us at [info@capricornspace.com.au](mailto:info@capricornspace.com.au) or call on [+61 499 993 996](tel:+61499993996).



	Antenna	Equipment Room	Communications	Power
<b>Retail</b>	Per minute fee			
<b>Landlord</b>	Monthly lease fee	Monthly lease fee	Fixed monthly fee	Metered usage charge
<b>Hybrid</b>	Per Retail	Per Landlord	Per Landlord	Per Landlord