Telstra Satellite Services
Bringing the world to your doorstep
Satellite Services

Regardless of where you are, you are just one click away from the world

The demand for connectivity and bandwidth is increasing at a phenomenal rate, be it for personal communications, government or enterprise networks. To meet this demand, service providers and organisations alike are looking at satellite services – either as a complement to terrestrial networks or as the default choice, leapfrogging the terrestrial infrastructure altogether.

Improvements in satellite bandwidth efficiencies have brought down per Mbps prices to levels never seen before. At the same time, ongoing technology advances are spawning new businesses and opening up new markets.

At Telstra, we have expanded our satellite coverage from Asia Pacific to the rest of the world, introducing new features all the same time. By combining these latest satellite capabilities with our global terrestrial network and full suite of application services, you can be assured of end-to-end solutions to meet your connectivity and networking needs.

Benefits

No place is too remote

Unconstrained by geography or terrain, Telstra’s Satellite Services can reach almost anywhere in the world. We are proud to be one of the very few satellite service providers who have live connectivity into remote locations, such as Antarctica. From deserts to the seas and more remote locations, we help narrow the digital divide for local communities and connect businesses and industries worldwide.

Speed of deployment

Satellite circuits are not constrained by the cabled last mile or ‘local’ interconnect arrangements between terrestrial networks. As such, the quickest way to connect your remote offices or operations is by satellite, especially should you have multiple dispersed sites.

Private network for multiple sites

A unique advantage of satellite delivery is that a single satellite provides coverage to a large geographical area – up to one third of the earth’s surface. This allows you to run your own private network over the satellite – with or without any connectivity to terrestrial networks. This can be achieved through your own VSAT service platforms (working as a standalone network) or via Telstra’s Satellite Virtual Network Operator (VNO) service.

Reliability

Satellite Services are reliable as satellites are immune to terrestrial natural disasters and man-made accidents. This makes them ideal for critical communications, either as a main service or back-up. With four teleports in geographically diverse locations (Hong Kong, Sydney, Perth and Melbourne), Telstra offers true site diversity and a range of reliable end-to-end solutions, to give you peace of mind.

Flexibility

Existing satellite circuits can be upgraded quickly without the need to replace terrestrial cables or navigate inter-telco connectivity arrangements. The wireless nature of satellite links, coupled with their wide coverage, means that migration of a satellite link from one site to another can be accomplished swiftly.

Telstra’s Satellite Services offering includes:

- **Satellite Data**
  - Satellite International Private lease, Satellite IP Trunk and VSAT Private Lease
- **Satellite Teleport**
  - Uplink/Downlink, Colocation and VNO services
- **Satellite Media Services**
  - (see also Telstra Broadcast Services)
Satellite Applications

**Telco Carriers**

- International Fixed Lines voice circuits
- Cellular backhaul
- Internet transit
- International leased lines

**What we offer:**
- Satellite IPL in C and Ku bands up to 500 Mbps per link
- Ka band high throughput Satellites from 20 Mbps to 1 Gbps
- Terrestrial breakout to Internet transit, IPL/EPL or local loops

**How will you benefit**
With the increase in satellite throughput and lowering of per Mbps pricing, Telco carriers can embark on Voice/Mobile/Broadband network upgrades and expand into areas not covered before, to support local businesses and consumer consumption.

**Government**

- Remote area communication for security forces (Global WAN)
- Embassy networks
- Remote video surveillance
- Community / welfare Services
- Distance learning
- Disaster Recovery communications

**What we offer:**
- Satellite IPL in C and Ku bands up to 500 Mbps per link
- Ka band high throughput satellites from 20 Mbps to 1 Gbps
- VSAT Services in C, Ku and Ka bands from less than 1Mbps to 50 Mbps
- Teleport Uplink/Downlink and Teleport Co-location Services
- Satellite capacity
- Terrestrial breakout to Internet transit, IPL/EPL or local loops

**How will you benefit**
Satellite offers a higher level of security for Governments, as they can have full control of the end-to-end delivery, with no need to go through multiple terrestrial providers to reach the end destination. It is also immune to terrestrial natural disasters, which makes it ideal for critical links and for disaster relief operations.

**Banking and Financial Services Industry**

- Points-of-Sale, ATMs
- Corporate WAN
- Digital signage
- Disaster Recovery Centre
- Backup of terrestrial links

**What we offer:**
- Satellite IPL in C and Ku bands (for main/backup trunks up to 500 Mbps)
- VSAT Services in C, Ku and Ka bands from less than 1Mbps to 50 Mbps (point-to-point)
- Managed private VSAT network
- Terrestrial breakout to Internet transit, EPL or local loops

**How will you benefit**
For the less developed regions of the world, a satellite link is typically more reliable than a terrestrial link and can be deployed much faster. With a bundled solution of satellite and terrestrial connectivity, we can reliably connect you from the most metropolitan cities to the remotest town and beyond.

**Multinational Corporations**

- Corporate WAN
- Internet connectivity
- Disaster Recovery Centre
- VoIP, videoconferencing

**What we offer:**
- Satellite IPL in C and Ku bands (for main/backup trunks up to 500 Mbps)
- VSAT Services in C, Ku and Ka bands from less than 1Mbps to 50 Mbps (point-to-point)
- Managed private VSAT network
- Terrestrial breakout to Internet transit, EPL or local loops

**How will you benefit**
To help MNCs tap into the growth from the fastest growing regions of the world, Telstra offers reliable connectivity to this part of the world to connect up with headquarters, vendors and suppliers.
## Satellite Applications

### Service Provider
- Internet transit
- Secured private lease via satellite
- VoIP, videoconferencing

**What we offer:**
- Teleport Uplink/Downlink and Teleport Colocation Services
- VNO services
- Satellite IPL in C and Ku bands (up to 500 Mbps)
- Terrestrial breakout to Internet transit, EPL or local loops

**How will you benefit**
Telstra owns four world-class teleports in Asia and Australia that offer high service levels to Service Providers who aim to deliver high-quality satellite services to their customers. Our 24/7 Satellite Network Operation Centres ensure that you are expertly supported by trained engineers at any time of the day.

### Mining and Energy Resources
- Exploration stage – high resolution geological imaging back to laboratories
- Operation stage – WAN, Internet, VoIP applications
- Crew welfare – Internet, VoIP

**What we offer:**
- Satellite IPL in C and Ku bands (for main/backup trunks up to 500 Mbps)
- VSAT Services in C, Ku and Ka bands from less than 1 Mbps to 50 Mbps (point-to-point)
- Ka band high throughput satellites from 20 Mbps to 1 Gbps.
- Portable Ka band VSAT systems and satellite link
- Managed private VSAT network
- Terrestrial breakout to Internet transit, EPL or local loops

**How will you benefit**
Whatever stage of mining business you are at – from feasibility study to exploration or operations – Telstra has a range of solutions to suit your needs. We also can also connect your regional and global headquarters, through a mix of satellite and terrestrial connectivity services.

### Broadcasters and Content Providers (refer to Telstra Broadcast Services)
- Contribution to Cable Headends, IPTV Operators and Broadcasters
- Direct to Home Broadcasts
- Sports coverage and event reporting

**What we offer:**
- Please refer to Telstra Broadcast Services.

### Other usages
- Plantations
- Scientific research stations
- Unmanned weather stations
- Machine-to-machine (M2M) networking
- Petrol kiosks
- Corporate CCTVs

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Satellite Services (cont.)
Satellite Data

For communications unconstrained by geographical and environment limitations, look no further than Telstra's Satellite Data Services, designed to cater to the diverse needs of our Enterprise, Government, Telecommunications and Service Provider customers.

With our own satellite teleports in Asia Pacific and partner teleports in other regions, we can provide you with global satellite connectivity no matter where you are. Telstra provides satellite services in all major commercial satellite bands (C, Ku and Ka), and we support multiple platforms and the latest technologies.

We pride ourselves in being committed to high SLA standards and working hand-in-hand with you to meet your evolving requirements – bringing critical communications not just to cities, but also to the remotest parts of the world.

From a standalone point-to-point satellite link or a bundled solution, we will find the right solution for you. Together with our network of global partners, we facilitate local licensing, provision of equipment, shipping, installation and commissioning, as well as maintenance services. With this peace of mind, you can focus on your core business.

Telstra’s Satellite Data Services are divided into the following categories:

- Satellite International Private Lease
- VSAT Private Lease
- Satellite IP Trunk

Our teleports and partner teleports are seamlessly connected to Telstra’s terrestrial networks – including international subsea cable systems, Internet transit, IPv6, and voice services – to give you even greater international reach. Should you have diversified network requirements across the globe, we offer Satellite-Terrestrial hybrid connectivity to ensure the best solution for your needs.
Satellite International Private Lease

Overview

Telstra’s Satellite International Private Lease Service offers you connectivity to our complete range of voice and data network connectivity services via our satellite teleports. The solution is based on a point-to-point satellite link between any one of Telstra’s teleports and a distant end partner teleport.

At the distant end, the teleport is normally connected to our customers via a local loop.

While we employ the latest satellite technologies in the industry, our solutions are also highly cost-effective.

VSAT Private Lease

Overview

Telstra’s VSAT Private Lease Service offers customers at remote locations direct connectivity to our complete range of voice and data network connectivity services – via our satellite teleports. The solution is based on a point-to-point satellite link between any one of Telstra’s teleports and a distant end VSAT terminal located at a customer’s premises.

This solution is the ideal last mile solution for extending international voice or data connectivity to remote locations where terrestrial infrastructure has yet to be developed. With a satellite link directly to your premises, we can help you overcome any lack of telecommunication infrastructure on the ground.

Many Enterprise and Government organisations use Telstra’s VSAT Private Lease Services to connect remote offices to their own VoIP and Wide Area Networks.

Satellite IP Trunk

Overview

Telstra’s Satellite IP Trunk extends broadband Internet access right to the doorstep of our customers’ offices, regardless of geographical location. The solution is based on a point-to-point satellite link between any one of Telstra’s teleports and a distant end VSAT terminal located at a customer’s premises, or via a distant end teleport and a local loop.

Telstra’s teleports are connected to Telstra’s IP backbone, the largest in the Asia Pacific region, assuring you of reliable access to the Internet.
Telstra owns and operates a network of satellite ground stations in the Asia Pacific region. The scale and advanced facilities of these teleports enable us to offer you better satellite link margins, competitive pricing and a comprehensive range of services that are ideal for satellite operators, satellite service providers and carriers alike.

From our strategically located teleports at Hong Kong, Sydney, Melbourne and Perth, as well as our partners in Europe and USA, we offer global satellite coverage and access to over 40 satellites.

Our teleports are connected to our international subsea cables, MPLS network, Internet backbone and media delivery network, providing extended connectivity options and access to a wide range of telecommunication services.

Satellite Uplink/Downlink

Whether it is for data or media services, our teleports are ideal gateways for customers to reach out to the Asia Pacific and beyond. Broadcasters and Telecommunications Carriers alike put their trust in Telstra’s Satellite Uplink, Downlink and Turn-around services to deliver voice, data and media across the globe. Around the clock support from our experienced engineers ensures that your traffic gets delivered every time.

Satellite Colocation

We can also accommodate your equipment and systems in our teleports, with a range of Rack and Floor space colocation services tailored to your needs.

Our onsite engineers provide first line support on a 24/7 basis. On a case-by-case basis, we may also offer a managed installation service.

Virtual Network Operator (VNO)

Telstra hosts iDirect VNO services for customers who want to manage their own VSAT networks without large investments in teleport infrastructure. With Telstra’s VNO services, you are in full control of your own networks and remote terminals.

Telstra’s teleport and terrestrial connectivity allow customers’ VSAT network to connect seamlessly to the internet backbone or customers’ private Wide Area Networks.

Telstra’s iDirect platform supports both Infinity and Evolution solutions to suit your needs.

Stanley Teleport Satellite Access (Hong Kong)
Photos of Telstra’s teleports

Stanley Teleport (Hong Kong)

Oxford Falls Teleport (Sydney)

Gnangara Teleport (Perth)

Bendigo Teleport (Melbourne)
Telstra’s Teleports in action
Virtual Private Network Coverage

Access to >2,000 PoPs globally with over 1,000 in Asia Pacific
MPLS-TE (Traffic Engineering) backbone latency optimisation
6 Class of Service (CoS)
Diverse cable routes and highly resilient core infrastructure
ISO27001:2013 for IPVPN Provisioning
Burstable bandwidth for IPVPN, EVPL and VPLS

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