



Singtel offers your business a variety of VSAT / SAT IP Services catering to your specific needs. From end users to small businesses to multi-national corporations, we have the right solution for you.

As a leading provider of satellite and fibre optical services, Singtel is able to offer both in width and in depth, bundled products and services to meet customers' most demanding requirements. With our teleports in Singapore and other locations in the world, we have access to more than 30 satellites, giving customers a wide range of satellite coverage. Complementing our satellite solutions are our MPLS networks and Tier-1 Internet backbone seamlessly connected to our teleports to give customers end-to-end solutions almost anywhere in the world.

## Key Benefits

### Scalability

Ability to increase bandwidth and scale with system expansion

### Fully Managed Network

24x7 circuit monitoring by Singtel's ISO-9002 certified network management centre

### Extensive Coverage

Satellite connectivity with more than 30 antennas pointing at the satellites from 36°E to 180°E and extensive terrestrial network of more than 200 PoPs in over 160 major cities

### End-to-End Control

Hassle free single point of contact allowing quicker service request turn-around, better management and faster fault recovery

## Features

- Connectivity to Tier 1 Internet backbone
- Connectivity to worldwide MPLS network
- RF chains with redundancy protection
- Remote monitoring capabilities
- End-to-end solutions including on-site services
- Dual power feed from power station
- Dual UPS power feeds to equipment racks
- Generator power to support operation indefinitely
- 24x7 Network Operation Centres
- Disaster free location - Singapore is one of the countries with the lowest risk of natural disaster\*

\* Source: Maplecrafter's Natural Disaster Risk Index (NDRI) 2011.



## Singtel's various VSAT / SAT-IP Solutions

### Global VSAT

Point-to-Point dedicated SCPC service with Singtel satellite capacity and ground solutions. Both sites are linked directly via satellite without going through Singtel teleport.

### Corporate VSAT

Point-to-Point dedicated SCPC service terminating at Singtel Teleport, bundled with private local digital leased line to connect to customer's premise or another location in Singapore.

### SAT IP Trunk

Point-to-Point dedicated SCPC service terminating at Singtel Teleport, connected to Internet backbone.

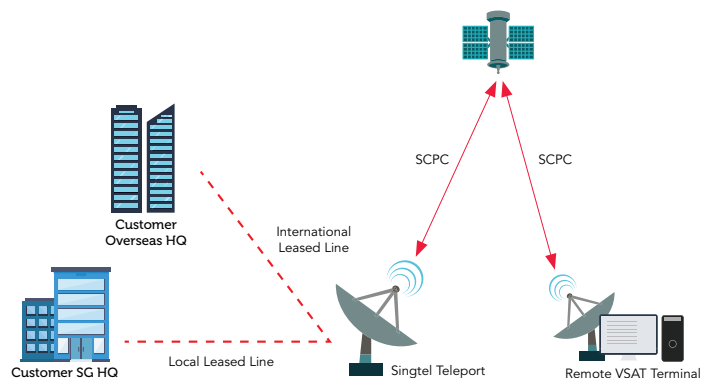
### SAT IP (Shared & Dedicated)

Point-to-Multipoint shared, DVB-S2/TDMA and DVB-S2/SCPC service terminating at Singtel Teleport, enabling dynamic allocation of bandwidth. Various contention ratio schemes are available.

### Singtel VSAT / SAT-IP Solution is suitable for

• Backup for Terrestrial Links	• Hospitals
• Banks	• ISP
• Defence Organisations	• Mining Companies
• Educational Institutes	• NGO's
• Emergency Response	• Oil and Gas
• Enterprises	• Satellite News Gathering
• Government Organisations	• Satellite Trunking

### Corporate VSAT



Note: Bundled solutions including provision of remote site equipment, installation and maintenance services are also available.

## Singtel VSAT / SAT-IP Solution Matrix

Dedicated	Satellite IP Trunk	Corporate VSAT	Global VSAT	Shared	SAT IP
<b>Speed</b>	Up to 155 Mbps duplex*		Up to 155 Mbps duplex*	<b>Speed (aggregate)</b>	Up to 150Mbps* Contention ratio (4:1; 10:1; 20:1)
<b>Ideal for</b>	Enterprises and Satellite Service Providers	Government and Enterprises		<b>Ideal for</b>	Enterprises and Mining
<b>Connectivity to</b>	Internet	Singtel MetroEthernet	Singtel ConnectPlus	<b>Connectivity to</b>	Internet

Note: \* subject to link budget calculation

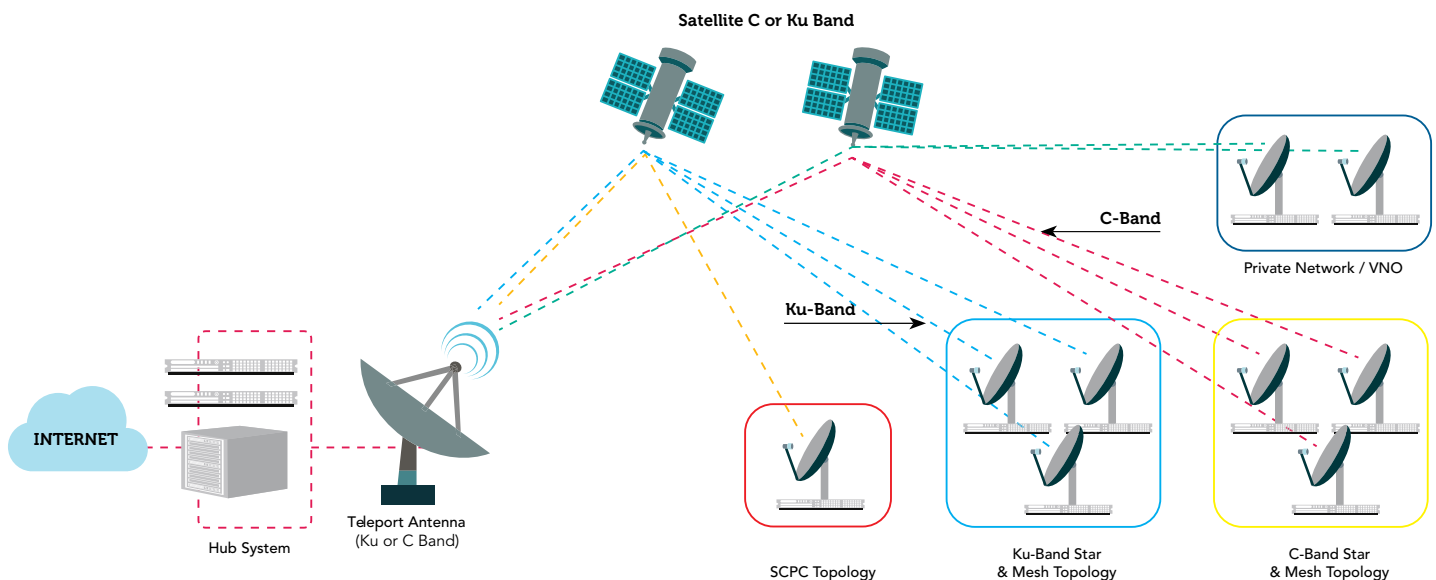
Singtel provides a number of **Value-Added Services** including:

- **Integrated Network Monitoring System (iNMS)** to monitor in real-time the remote sites health status and to assist in fault identification and recovery, saving precious time before engineer is deployed to site.
- **AIO Connect Services** support cost effective voice and internet services, connected to Singtel's international

telephony service and internet backbone. Comes with an easy to manage pre-paid model to enable remotely located communities and enterprise operations to maintain communications with friends and families over the world.

- **Cyber Security**  
Singtel Satellite network is fully secured by Next-Generation Firewall System to keep customer network safe, and makes business more successful.

### SAT IP



# About Singtel

Singtel is Asia's leading communications technology group, providing a portfolio of services from next-generation communication, technology services to infotainment to both consumers and businesses. For consumers, Singtel delivers a complete and integrated suite of services, including mobile, broadband and TV. For businesses, Singtel offers a complementary array of workforce mobility solutions, data hosting, cloud, network infrastructure, analytics and cyber-security capabilities. The Group has presence in Asia, Australia and Africa and reaches over 650 million mobile customers in 21 countries. Its infrastructure and technology services for businesses span 21 countries, with more than 428 direct points of presence in 362 cities.

## About Singtel Satellite

Singtel Satellite is Asia's leading provider of one stop satellite communications and ICT solutions, driving innovations to meet voice and digital challenges in Fixed and Mobile Satellite segments on both land and at sea.

With a strategic focus on Maritime communications, Singtel Satellite engages the key needs of Maritime customers with broadband satellite communications, Cyber Security solutions and ICT applications in Crew Welfare, Operational Efficiency, and Monitoring and Control, bridging mission critical communication gaps between ship and shore.

From satellite to fibre to IP, Singtel Satellite offers global coverage and versatility across platforms. Backed by 3 teleports pointing to more than 30 satellites and supported by our award winning IP VPN infrastructure and an extensive terrestrial network of with more than 428 direct points of presence in 362 cities, Singtel Satellite ensures quality customer experience in communications and connectivity.

Committed to delivering service excellence and with more than 40 years of collective experience, Singtel Satellite empowers global customers with complete solutions to organically drive productivity, efficiency, and experience.

## Awards

Seatrade Maritime Awards Asia  
Communications at Sea Award 2018

Asia Communication Awards  
Satellite Operator of the Year 2017, 2016, 2015

VSAT Industry Awards  
VSAT Service Provider of the Year 2016, 2014

The Technical Innovation Award  
Seatrade Asia Awards 2012, 2010, 2008

Global Top 20 World Teleport Association  
Top Teleport Operators of 2020, 2019, 2018, 2017, 2016, 2014, 2013, 2012, 2010, 2009

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