

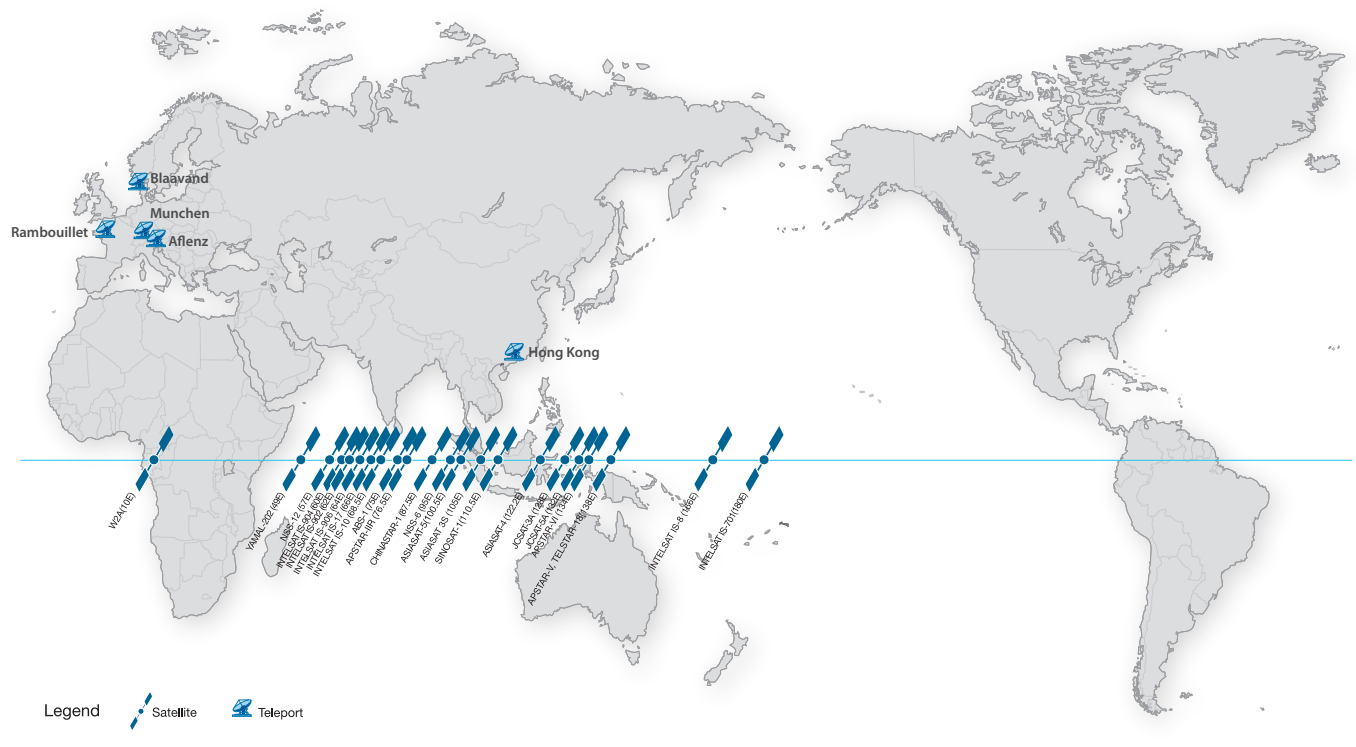
Satellite Solutions

PCCW Global provides easy-to-use, flexible and reliable turnkey Satellite Solutions for private data networks connecting enterprises and governmental institutions around the world.

Key benefits to your business

- Ideal for corporate networks, our Satellite Solutions provide reliable two-way transmission, even in challenging geographies
- Worldwide coverage with interconnections to PCCW Global's high speed terrestrial backbone network
- Scalable-growth path, as high bandwidth requirements can be accommodated easily

Network coverage



VSAT Services

A Very Small Aperture Terminal (VSAT) is a two-way satellite ground station that accesses satellites in orbit and relays data from terminals and hubs on earth. VSATs can transmit both narrowband and broadband data and are used for various types of communications.

The strength of VSAT is in its ease of deployability and its secure and high speed connection regardless of latency. VSAT can also serve as backup for local infrastructure in case of potential disasters. It can also provide connectivity to thousands of locations at a time at cost-effective pricing.

Managed End-to-End VSAT Service

This satellite-based Single Channel Per Carrier (SCPC) technology uses a VSAT antenna and indoor unit to provide a reliable, two-way communications link anywhere under the satellite's footprint.

Specifications

- Satellite space segment
- Ground equipment includes VSAT antenna, RF ODU, satellite modem and cables
- One-time VSAT installation and commissioning
- Data rates support: 64Kbps up to 155Mbps
- Interface supported: V.35, G.703, RS-422, Ethernet, FE, HSSI and ASI

Features

- Quick implementation of reliable, dedicated capacity with clear channel circuits
- Both symmetric and asymmetric data rates supported in 1Kbps increments
- Service Level Agreements (SLAs) offered for both hub and remote locations
- Terrestrial interconnection with PCCW Global's optical fiber infrastructure (IPLC + MPLS VPN)
- Web-based online access enabling customers to monitor link utilization

Broadband VSAT Network Service

An IP-enabled two-way broadband service based on meshed or star network topology provides dynamic and efficient use of bandwidth with burstable (offering delivery speeds equalling multiples of the Internet access rate) or shared throughput.

Specifications

- Typical information rates from 64Kbps to 11Mbps
- Quality shared bandwidth service, with QoS control
- C-band and Ku-band coverage
- Flexible profiles with symmetric and asymmetric data rates on forward and return links
- Real or private IP address allocation
- Interface: Ethernet or Fast Ethernet
- Antenna size: 0.75m to 2.4m

Features

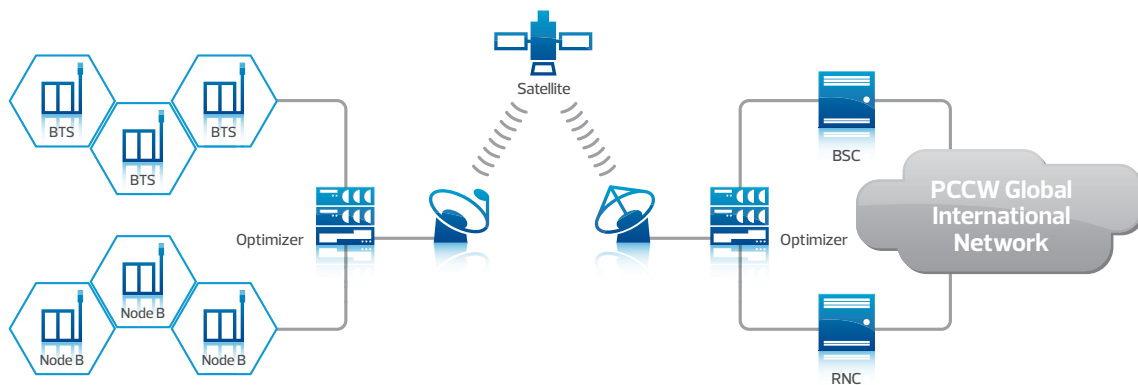
- IP-based connectivity with enhanced features such as TCP spoofing, caching and pre-fetching
- Supports VLAN, IP-VAN and transparent mode
- Voice-over-IP (VoIP)
- VLAN connectivity

Cellular Backhaul Service

PCCW Global's Cellular Backhaul Service is made possible by the most advanced voice optimization technology coupled with our systems integration expertise, network bandwidth savings enabling cellular operators to slash operating costs.

Our total package includes a highly efficient satellite-based service that supplements an operator's terrestrial backhaul infrastructure and extends reach into markets where deployment of optical fiber or microwave networks would not be viable. This enables mobile players to offer services to populous yet previously-unserved wireless markets.

Network diagram



Specifications

- A and E interface specifications
 - Mobile Switching Centre (MSC) to Base Station Controller (BSC) backhaul link
 - Codecs supported: G.711, G.723 and G.729
- Abis and Ater interface specifications
 - Base Station Controller (BSC) to Base Transceiver Station (BTS) and Transcoder Rate Adapter Unit (TRAU) to Base Transceiver Station (BTS) access links
 - GSM codecs supported: FR, EFR, HR and AMR (both FR and HR)
- Supports both CDMA and GSM cellular networks
- Traffic types supported: 3G (UMTS, CDMA), 2.5G (EGDE), GPRS data, 2G, IP data, SS7 signaling, PCU signaling and Signaling Connection Control Part service (SCCP)
- A and E interface optimization ratio: Up to 16:1 & up to 8:1 SS7 traffic optimization
- Voice and data aggregation and compression
- Abis and Ater interface optimization ratio: Up to 3:1 (2G) and up to 4:1 (2.5G)

Features

- Equipment procurement and systems integration with GSM equipment
- Space segment procurement and satellite link installation and commissioning
- International Voice Termination — Premium Service for roaming and CLI guaranteed terminations and Standard Service for price-sensitive terminations
- Mobile Messaging and Signaling Services
- Global roaming with more than 400 partners worldwide
 - iSMS (international text messaging) — real time text messages of up to 160 characters
 - Fully redundant bi-directional signaling network
 - Simple and customized pricing
 - ANSI-to-ITU signaling conversion

Internet Trunking Service

This provides Internet Service Providers (ISP) with a high speed satellite connection to the Internet backbone.

Specifications

- Typical information rates from 64Kbps up to 155Mbps
- Flexible bandwidth arrangements and Quality of Service (QoS) options, including Constant Bit Rate (CBR) and Burstable Bit Rate (BBR) over DVB/IP platform
- Real IP-address allocation
- Interface: V.35, HSSI, Ethernet or Fast Ethernet
- Network flexibility with multiple virtual channels – service shared by multiple sites equipped with Very Small Aperture Terminals (VSAT)

Features

- Improved overall link performance, eliminating congestion in local terrestrial infrastructure for the high speed portion of the link
- Guaranteed reliability with aggressive service level objective
- Web-based online management tools
 - Customized service with quick software-based reconfiguration functionality to meet changing customer needs

Value-Added Services

- Managed Router Service (MRS)
- Colocation Service

Teleport Service

State-of-the-art teleport facilities in Hong Kong equip PCCW Global to satisfy service provider requirements with high quality and reliability.

Specifications

- Frequency band: C-band, Ext. C-band and Ku-band
- Interconnection with PCCW Global's IP backbone and optical-fiber infrastructure
- Interface supported: IF and L-band
- Management control: Remote dial-in and async server
- Colocation rack space and power available

Features

- Maximum security, controlled environment and complete redundancy
- Rack space available for customer CSU/DCU, routers, compression and channel banks
- Connectivity for local loops available
- Diverse optical-fiber Metro Ethernet, STM-1, DS3, E1, T1 and ISDN circuits available
- Internet backbone connectivity, redundant access to IP carriers, network operators and voice partners

Video Transmission Service

PCCW Global's advanced Video Transmission Solutions provide global Standard Definition (SD) and High Definition (HD) content contribution and distribution via our satellite and terrestrial infrastructure.

Features

- Satellite and optical-fiber infrastructure for reliable global coverage
- High-definition video contribution and distribution

Employing approximately 19,300 staff worldwide, PCCW Limited is the holding company of HKT Group Holdings Limited (HKT) and serves customers as Hong Kong's premier telecommunications provider and a world-class player in Information & Communications Technologies. Operating as a wholly-owned subsidiary of HKT, PCCW Global provides integrated global communications solutions, runs a fully-meshed IP, fiber and satellite network and serves the voice, data and multimedia needs of enterprises worldwide, plus the operational requirements of service providers.

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