August 2013

Overview

Thaicom 4, known as IPSTAR, was one of the world's largest commercial satellites and the only broadband satellite in Asia-Pacific, facilitating 2-way broadband connectivity and cost-effective solutions for any community or business lacking access to terrestrial line infrastructure. The breadth of IPSTAR's geographical reach, covering an area inhabited by 3.2 billion people, positions IPSTAR as a preferred gateway into 13 countries via 18 gateways in Asia-Pacific. On August 11th, 2005, IPSTAR was launched and completed in-orbit testing on September 14th, 2005.

IPSTAR Key Market Segments

Telco Backhaul & Enterprise

IPSTAR can provide nationwide network coverage, allowing mobile network operators to avoid costly deployment of terrestrial infrastructure in areas with few subscribers. IPSTAR cellular backhaul service can also be deployed in buildings with no access to terrestrial networks by using femtocell technology.

IPSTAR enables telephone access via broadband internet in rural areas characterized by low population densities, highly scattered settlements and difficult terrains. Rural telephony via IPSTAR provides a viable solution and business opportunity for telecom service providers and operators in connecting communities to modern telecommunications.

Government & USO Program

We believe in equal opportunity. Since its launch in 2005, IPSTAR has helped government administrations in Asia Pacific to bridge the digital divide through access to online learning materials via push content delivery. Satellite broadband has played a key role in aiding administrations across the region to provide their citizens access to education and information systems. For example, over 26,000 schools in Thailand are connected to IPSTAR—thus allowing more than 2,000,000 students access to online learning materials and IP-based applications.

Disaster Management

IPSTAR's product and solution portfolio is designed to meet the precise needs of first responders in putting communication networks back on line in the event of natural or man-made disasters.

Establishing a communication link is a major enabler for the management of humanitarian aid and emergency response operations in any disaster event, but when needed the most, terrestrial and cellular networks can be among the first casualties of a disaster.

IPSTAR can be deployed quickly in heavily affected areas to provide broadband Internet, Voice over Internet Protocol (VoIP), Supervisory Control And Data Acquisition (SCADA) and Satellite News Gathering (SNG) services. IPSTAR also serves as a broadband communication backup in the hours, days and weeks following a disaster — offering first responders with communication services that damaged terrestrial networks can no longer provide.

Structure of IPSTAR Project (*as of January 2013*)
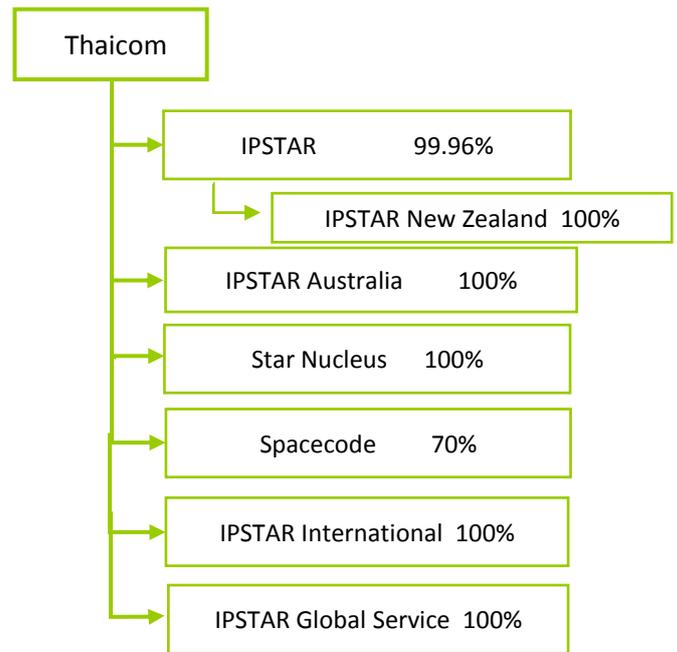
World HTS market share
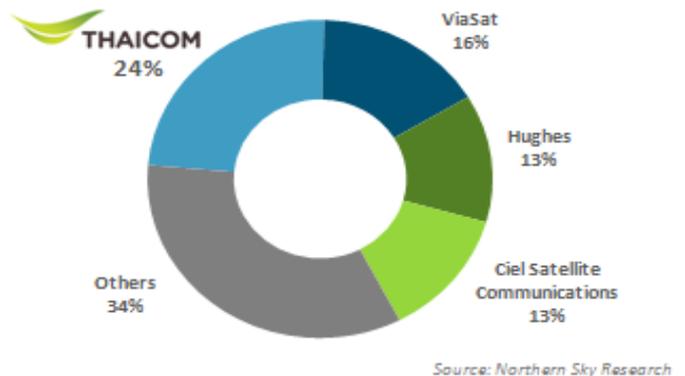
1H13 Highlights

: Committed utilization on IPSTAR reaches 54%

: Thailand's TOT takes up the remaining capacity over Thailand; started realizing revenue in 2Q13

: China's Synertone deal making positive progress;
- Signed Definitive Agreement and Revenue Sharing Agreement; In HKEx process before approval in Synertone's EGM meeting

: Additional revenue from IPSTAR services and sales;
- Australia's NBN and Malaysia's Measat continued to increase bandwidth usage beyond contractual commitment
- Signed additional bandwidth agreemennt with Indonesian and Indian broadcasters

IPSTAR Technical Specifications

	: in geostationary orbit
	: approx. 15.75 years of service life
Orbital Location	: 119.5° E
Bandwith Capacity	: 38.4 Gbps
*Beams**	: 84 spot beams
	: 3 shaped beams
	: 7 broadcast beams
Launch Year	: 2005

*Spot beams: 2-way
Shaped beams: same as spot beam but cover wider area
Broadcast beams: 1 way communication, cannot provide internet service

Coverage Area

○ Spot Beams
◯ Shaped Beams
⬤ Broadcast Beams
◉ Gateway
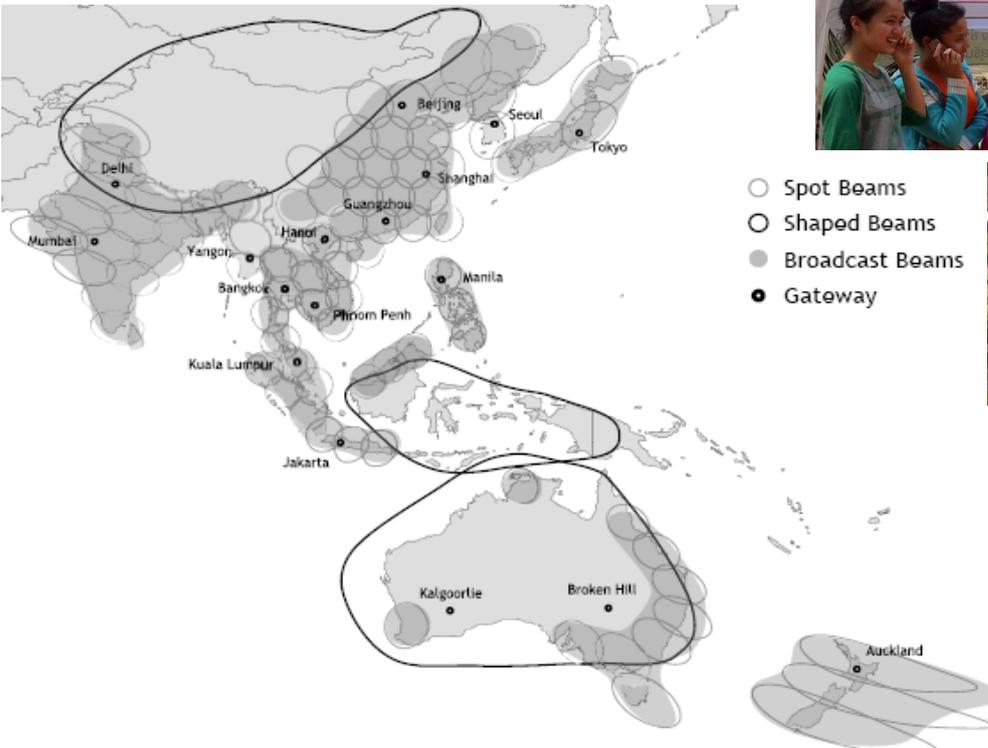
IPSTAR Helps connect AIS Mobile Network
...at the damaged area caused by fire at the Refugee Camp, Khun Yuam, Mae Hong Son, Thailand.

THAICOM has sent two engineers with IPSTAR MVV to provide support to connect AIS Mobile network in this damaged area.

Country	Capacity in Mbps	% of total Capacity	Gateway Locations	Operational Date
Australia	5,634	14.7%	Kalgoorlie, Broken Hill	16-Nov-05
Cambodia	362	0.9%	Phnom Penh	1-Dec-06
China	9,367	24.4%	Beijing	24-May-06
			Guang Zhou, Shanghai	26-Dec-06
India	6,200	16.1%	New Delhi, Mumbai	1-Mar-10
Indonesia	2,571	6.7%	Jakarta	10-Jun-09
Japan	2,755	7.2%	Tokyo	1-Apr-09
Korea, Republic	893	2.3%	Seoul	1-Sep-08
Malaysia	2,378	6.2%	Kuala Lumpur	1-Sep-08
Myanmar	723	1.9%	Yangon	7-Dec-05
New Zealand	848	2.2%	Auckland	17-Nov-05
Philippines	1,378	3.6%	Manila	6-Nov-08
Taiwan	804	2.1%	n.a.	n.a.
Thailand	3,070	8.0%	Pathum Thani	26-Oct-05
Vietnam	1,447	3.8%	Hanoi	9-Nov-05
Total	**38,429**	**100.0%**	**17**	**-**

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