



### **THAICOM Services**



Product Marketing THAICOM and Video Service Dept.

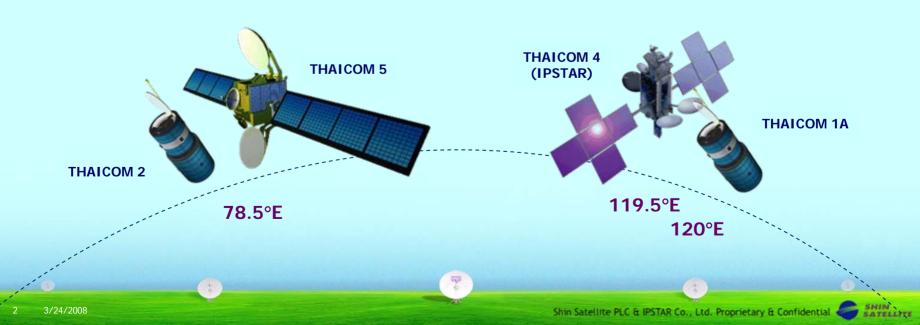








- THAICOM Product Update:
  - THAICOM Facts
  - THAICOM Video Broadcasting Services
  - THAICOM Teleport & DTH Center
  - THAICOM ProTrunk Service







- Satellite Fleet
  - THAICOM 1A @ 120°E
  - THAICOM 2 @ 78.5°E
  - THAICOM 4 (IPSTAR)
  - THAICOM 5

@ 119.5°E @ 78.5°E

## Key Features

- 78.5°E is a South Asia's and Indochina's prime orbital slot for broadcasting business carrying more than 200 satellite TV channels
- Choices of Ku-Band, C-Band Regional and C-Band Global
- Service Coverage
  - More than 120 countries in Asia, Australia, Africa and Europe





### THAICOM 1A, 2 and 5 Satellite Description

	THAICOM-1A	THAICOM-2	THAICOM-5
Manufacturer	Boeing Company, USA	Boeing Company, USA	Alcatel Alenia Space, France
Satellite Model	Boeing 376	Boeing 376	Spacebus-3000A
Lifetime	15 Years	15 Years	Minimum 12 Years
Stabilization	Dual-spin stabilized	Dual-spin stabilized	3-axis stabilized
Orbital Position	120°E	78.5°E	78.5°E
Transponders	12 C-Band (36 MHz) 3 Ku-Band (54 MHz)	10 C-Band (36 MHz) 3 Ku-Band (54 MHz)	25 C-Band (36 MHz) 12 Ku-Band (36 MHz) 2 Ku-Band (54 MHz)
Launch Date	December 17, 1993	October 7, 1994	May 28, 2006

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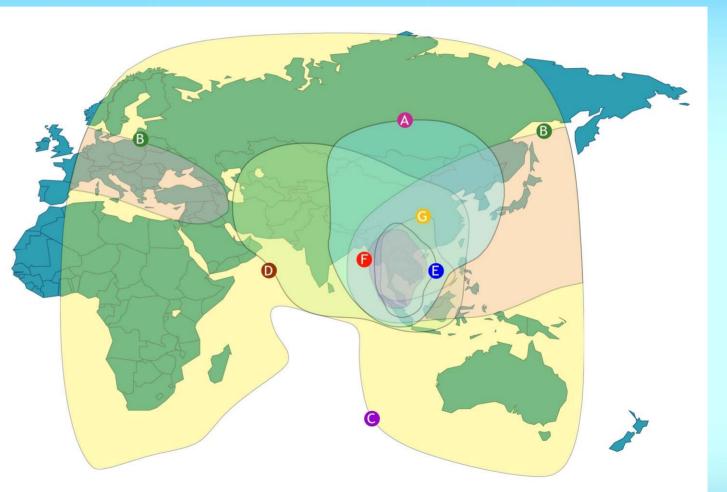




#### THAICOM 1A, 2 and 5 Satellite Footprints

#### THAICOM 1A, 2 and 5 Service Footprints

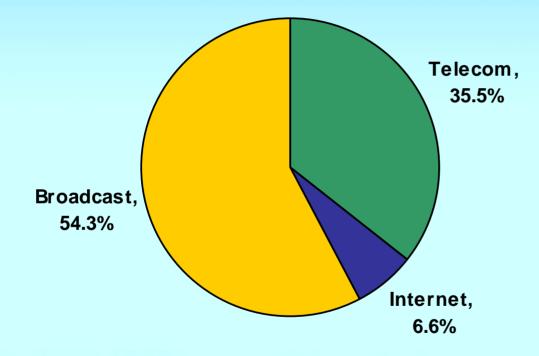
- A THAICOM-1A C-Band Regional Beam
- B THAICOM-2 C-Band Regional Beam
- C THAICOM-5 C-Band Global Beam
- THAICOM-5 C-Band Regional Beam
- E THAICOM-1A & 2 Ku-Band Thailand Beam
- F THAICOM-5 Ku-Band Thailand Beam
- G THAICOM-5 Ku-Band Indochina Beam





### **Existing THAICOM Customers by Application**

原



#### THAICOM 1A, 2 & 5

- Broadcast
  - C-Band TV Broadcasting
  - Ku-Band TV Broadcasting
  - Business/Educational TV
- Telecom
  - Domestic VSAT
  - International VSAT
  - Rural Telephone
  - Cellular Trunking
- Internet
  - Internet via Satellite



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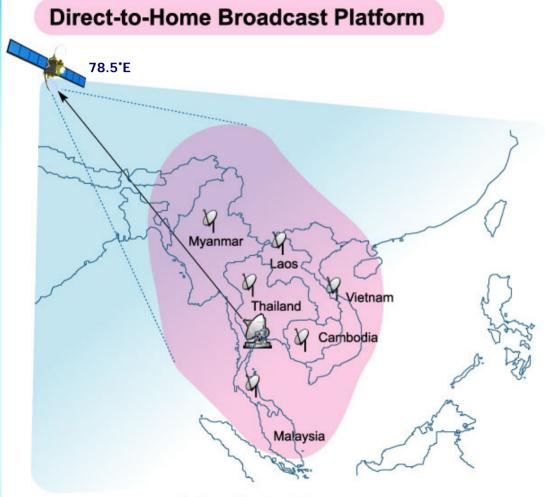
## **THAICOM Video Broadcasting Services**







### Existing Video Channels on THAICOM 78.5°E



Thaicom Ku-Band Beam

#### **Key Features:**

Powerful, effective and established
 DTH platform for the region

- High performance Ku-Band EIRP over Thailand and Indochina

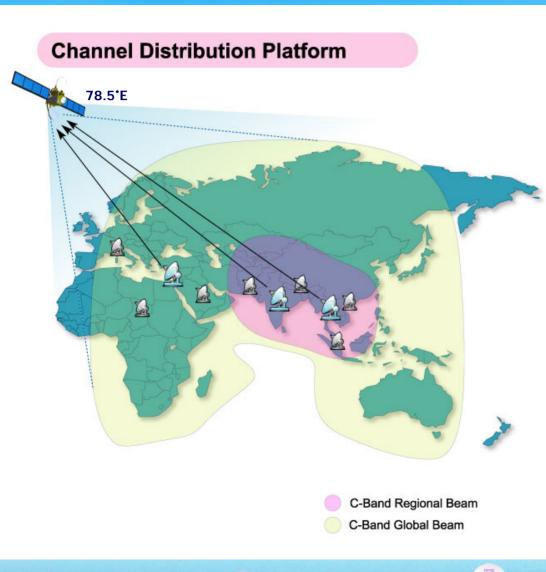
Platform	7 Full Ku-Band TP MCPC Platforms	
U/L Station	THAICOM Teleport and DTH Center, Thailand	
Beam	Ku-Band Beam	
No. of Channels	80+ Channels	
Channel Type	Thai and Western channels	



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#### Existing Video Channels on THAICOM 78.5°E



#### **Key Features**

- Feed links from Europe to the Middle East, South Asia, Southeast Asia and Australia

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- Immediate access to over 70,000 cable headends in South Asia (over 1 billion population)

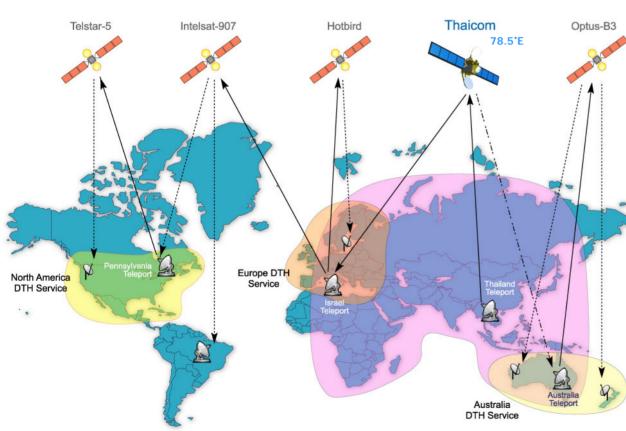
- Powerful C-Band Regional Beam EIRP over South Asia and Indochina

Platform	9.5 C-Band TP MCPC Platforms
U/L Station	<ul> <li>THAICOM Teleport and DTH Center, Thailand</li> <li>Other Partners' Sites</li> </ul>
Beam	C-Band Regional or Global Beam
No. of Channels	70+ Channels (*exclude those who uplinked by themselves)
Channel Type	<ul> <li>Thai &amp; Indochina: 20+ chs</li> <li>South Asia: 40+ chs</li> <li>Others: 10 chs</li> </ul>



Thaicom Global Television Platform

### Existing Video Channels on THAICOM 78.5°E



#### **Key Features:**

- One-stop shopping solution

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- Effective for reaching ethnic communities overseas
- Ideal for national, ethnic and niche markets programming such as religious or shopping channels, that demand a global audience
- Receivable by 70 million satellite households in North America, Europe and Australia

SATELLITE

- Covering more than 150 \* Satellites subject to change Countries in 6 continents





#### **Customers' Key Benefits**

- Strategic Orbital Slot: 78.5°E
  - 200+ channels with downlinking to cable headends, satellite stations and viewers' homes
  - Prime channels catering for the South Asia and Indochina markets
- Long-term Satellite Player
  - One of the most established and experienced satellite operator in Asia, since 1991
  - Pioneering and innovative
  - Follow-on satellite systems to ensure long term viability
- One-Stop Shopping Solution
  - End-to-end service delivery including compression, transmission and space capacity
  - Additional service such as downlink, tape play, conditional access, etc.
  - Turnaround and connectivity with other satellites for global coverage
  - Consultancy services for teleport design and installation
  - Assistance for operator's staff accommodation, visas and work permits
- Best Value for your Money
  - Flexibility to meet customers' requirement
  - Variety of service packages







## THAICOM Teleport and DTH Center









#### **THAICOM Teleport and DTH Center**

- Located at "Lad Loom Kaew, Pathumthani, Thailand"
- 25,000 square meter area
- Operated since 1996
- The World's first ISO 9000 certified operator for satellite and teleport services
- Top-three World Teleport Association finalist for the "2006 Corporate Teleport Operator of the Year Award"
- One back-up station (*THAICOM Satellite Control Station*) at Nonthaburi, Thailand







#### THAICOM Teleport and DTH Center World Class Facilities



Real Property







#### THAICOM Teleport and DTH Center World Class Facilities





Real Property







### **THAICOM Teleport and DTH Center**

- Comprehensive network operations and services
- Teleport Services
  - Uplink/Downlink Services
  - Digital Compression Service
  - Turnaround Service
  - Automatic/Manual Tape Play Service
  - Studio Service
  - Conditional Access Service
  - Satellite News Gathering Service
  - Fiber Optic Links
  - Microwave Links
  - Satellite System Integration







3x500 KVA UPS





**THAICOM Video Broadcasting Platforms** 

- THAICOM Teleport and DTH Center is operating digital MCPC platforms on both Ku-Band and C-Band beams at our 78.5°E strategic orbital slot
  - 7 Ku-Band MPEG-2/DVB-S MCPC platforms
  - 5 C-Band MPEG-2/DVB-S MCPC platforms
- Total ~150 satellite TV channels
- Broadcast quality: 3-8 Mbps per channel







## THAICOM ProTrunk Service





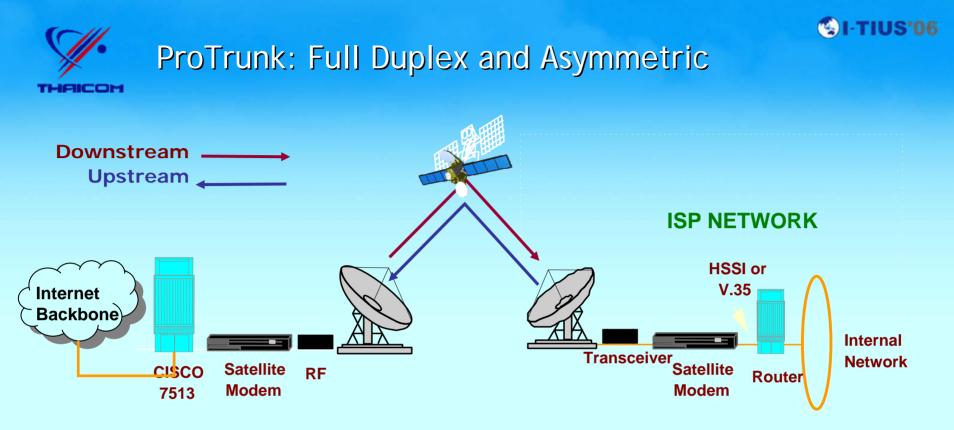




## ProTrunk Service (Internet via Satellite)

- High speed Internet Backbone Connectivity
- Service via THAICOM Satellites
- Network designed for ISPs/Carriers/IAPs
- Speed range from 64 Kbps till 43 Mbps
- Direct to roof-top solution
- Full Duplex(43/43Mbps), Asymmetric(8/2Mbps), Simplex(8Mbps)





Two-way via Satellite

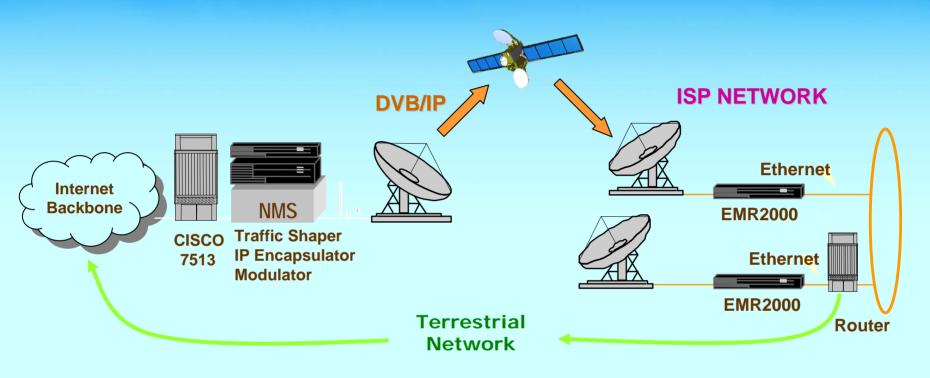
- Full Duplex : Downstream = Upstream
- > Asymmetric 4:1 :Downstream higher than upstream
  - (2 Mbps/512 Kbps, downstream/upstream)
- **EQUIPMENT REQUIRED : 3.2-3.8 m Antenna**, Transceiver, Satellite Modem

SHIN





#### **ProTrunk: Simplex**



- Simplex service provides only downstream adding inbound capacity to ISP's network
- Using existing request path via terrestrial network (Submarine Fiber or leased circuit)
- EQUIPMENT REQUIRED : 3.2-3.8 m Received Only Antenna, Receiver (EMR2000)







# Thank You



