



CAT Internet Update

Present by

MR. SUCHOK ARDHMAD



Agenda

- Country profile
- CAT company's profile
- CAT Internet services
- CAT-THIX services
- CAT peering information at exchange point

Country Profile



Full name: The Kingdom of Thailand

Location: In Southeast Asia, bordering the Andaman Sea and the Gulf of Thailand

Area: 513,115 sq km (198,115 sq miles)

Climate: Warm, Rainy and Cool

Population: 65.4 million (2010)

Capital: Bangkok

Major language: Thai

Major religion: Buddhism

Monetary unit: 1 baht = 100 satangs

Main exports: Food including rice, seafood, textiles and clothing, rubber

Country Profile



GDP growth rate: 3.7% (Quarter 3, 2011)

GNI per capita: US \$2,840

Age structure: 0-14 years: 20.8%

15-64 years: 70.5%

65 years and over: 8.7%

Literacy: 92.6% (2009)

Time difference: UTC+7

Telephone Country Code: 66

CAT Company's profile

Registered on 14th August 2003, CAT Telecom Public Company Limited was corporatised from the Communications Authority of Thailand under the Corporatisation Act B.E. 2547. All business, rights and obligations, assets and liabilities related to the Communications Authority of Thailand were transferred to the newly established CAT to ensure the seamless continuity of operations and service provision.



CAT Internet Services

1. CAT Internet Exchange



2. CAT Ethernet



3. CAT Private Line



4. CAT MPLS



CAT Internet Services (cont.)

CAT corporate internet

ธุรกิจใ**มือคุณ**
ด้วย **corporate internet**

CAT cable broadband

คมชัดทุกรายการโปรด
โลดแล่นไปกับโลกออนไลน์

CAT hinet

เพาะ**เมล็ด**
ด้วย**เน็ตที่บ้าน**

CAT WiFi

Online **Everywhere** ((WiFi))

CAT BPL

เชื่อมโยงทุกการสื่อสาร
เพื่อความต้องการของคุณ

CAT EDI

ที่สุด**ในธุรกิจ**
นำ**เข้า-ส่งออก**ยุคออนไลน์

CAT-THIX Services

THIX (THailand Internet eXchange)

- Offers this service to facilitate Internet Service Provider in connecting to the international internet network and also exchanging data among domestic ISPs.

Can be separated to 2 services

1. CAT-THIX (International Internet Gateway)
2. CAT-NIX (National Internet Exchange)

Connectivity Types

CAT-THIX can be divided into 2 connectivity types

1. Transit connectivity

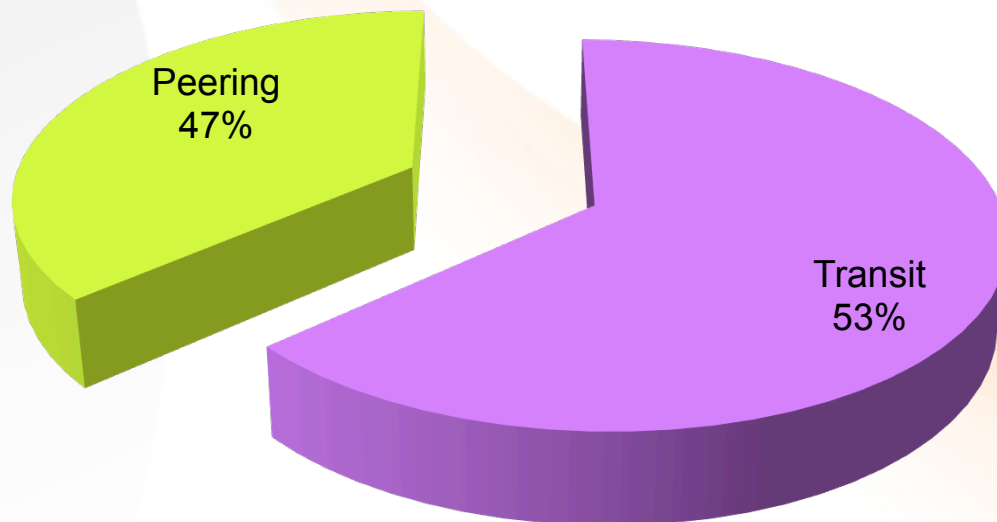
- U S A , E u r o p e a n d A s i a
- Traffic sent through CAT's consortium submarine cable systems

2. Peering connectivity

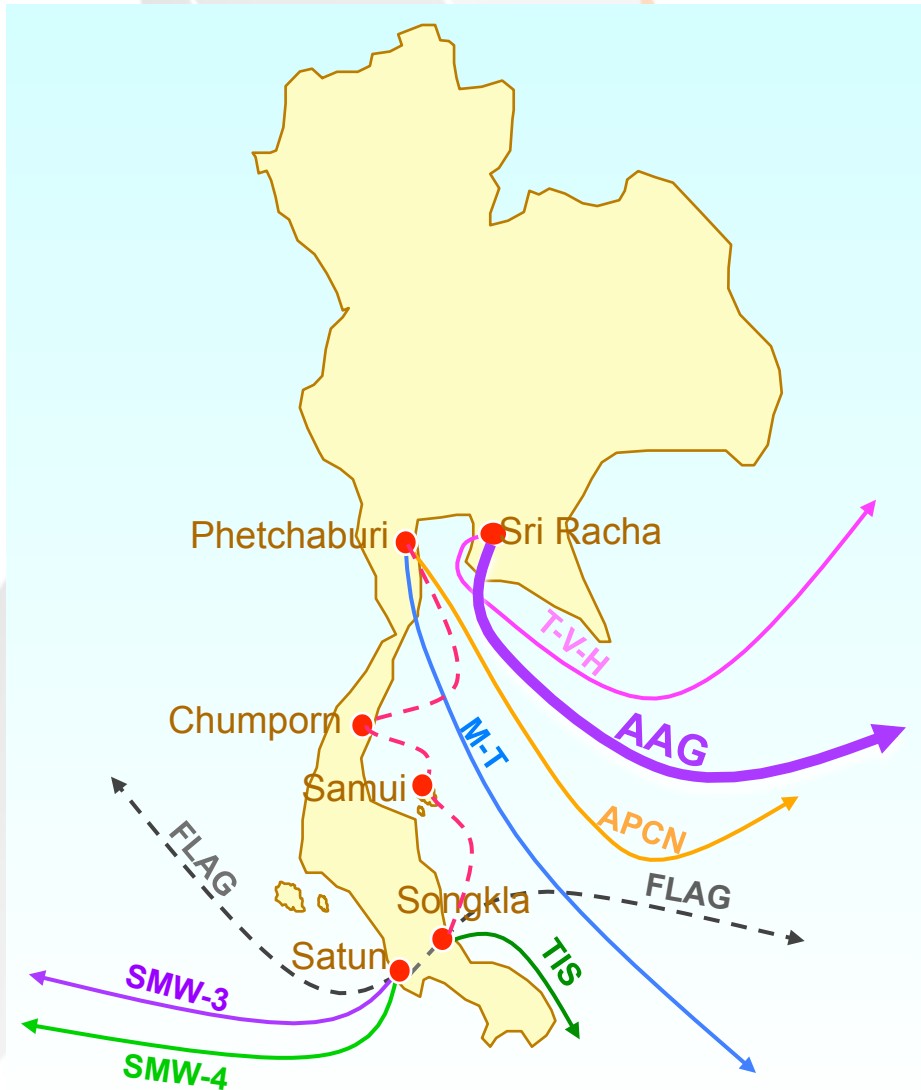
- Private peer (point to point) between 2 countries or organization at exchange point
- Public peer at exchange point
- Peering partner caching server

CAT-THIX Transit vs Peering

Transit vs Peering



CAT Submarine Cable System



- Domestic submarine system
 - International submarine system
1. T-V-H
 2. APCN1 and APCN2
 3. M-T
 4. TIS
 5. SMW-3
 6. SMW-4
 7. FLAG
 8. AAG

CAT Submarine Cable System (cont.)

CAT GATEWAY TO THE WORLD



CAT Indo-China Network



CAT-THIX point-of-presence (POP)

More than 80 Gbps existing capacity with five POPs in five continents

1. USA

- Telehouse, LA



- Equinix, San Jose



2. Europe

- Telehouse, Paris



3. Asia

- Mega-I, Hongkong

CAT-THIX point-of-presence (POP)

More than 80 Gbps existing capacity with five POPs in five continents (cont.)

Singapore

- Equinix, SG



Plan in 2012

- Install new POPs in US and Europe region

Future Plan in 2013

- Install new POP in Asia region

CAT-THIX Transit



Global Crossing®



NTT



PCCW®
電訊盈科



SingTel



SAVVIS



TELECOM
ITALIA

TeliaSonera



tinet
INTERNATIONAL NETWORK

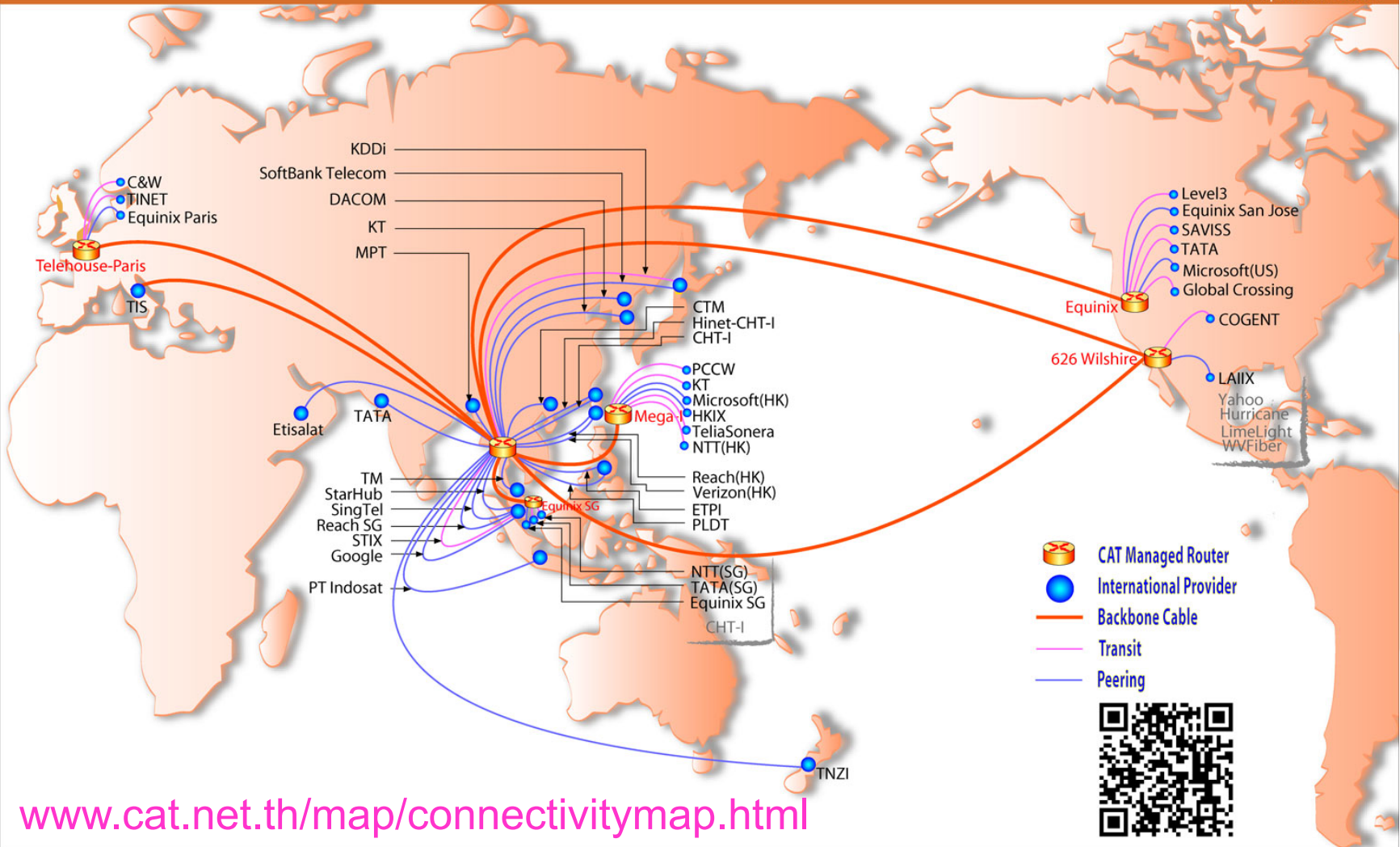
CAT-THIX Peering



CAT-THIX Connectivity Map

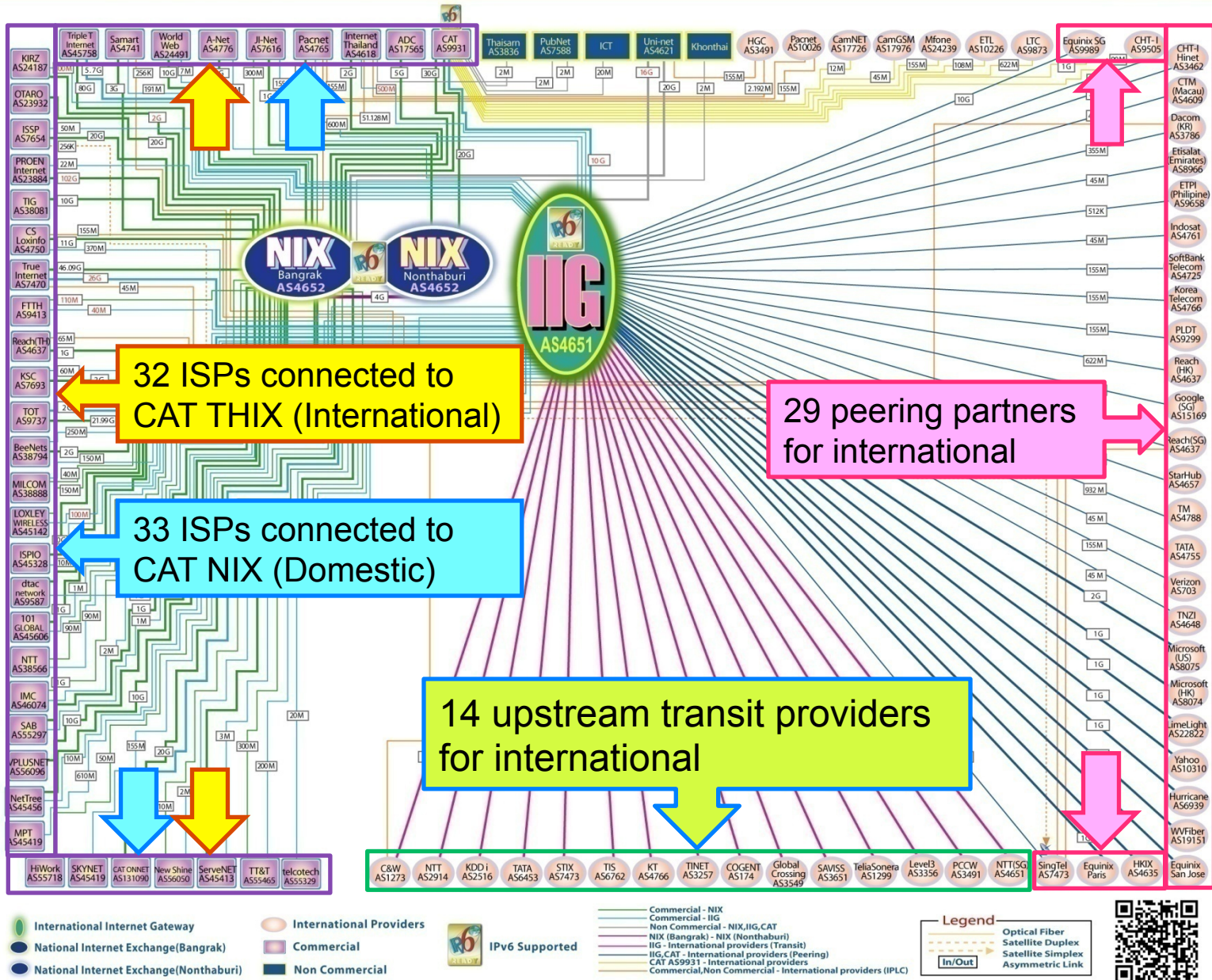
CAT Connectivity Map
<http://www.cat.net.th/map/connectivitymap.html>

Thailand Internet Exchange Service
 Internet Service Center
 Monthly : February 2012
 Last Update : 20-2-2012



www.cat.net.th/map/connectivitymap.html





www.cat.net.th/map/internetmap.html

The Communications Authority of Thailand (CAT)

- ASN: 4651 (Thailand Internet Exchange: THIX)
- Network Type: NSP
- Approximate Prefixes: 2500
- Traffic Levels: 50-100 Gbps
- Traffic Ratio: Mostly Inbound
- Peering Policy: Open
- Peering Location: Equinix (San Jose, Paris, SG), HKIX and LAIX
- PeeringDB Entry: as4651.peeringdb.com or www.cat.net.th/peering/index.php
- Contacts: CAT IP Peering Team (peering@cat.net.th)

धन्यवाद

Thank you

ขอบคุณครับ (Khob Khun Krab)

Present by

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