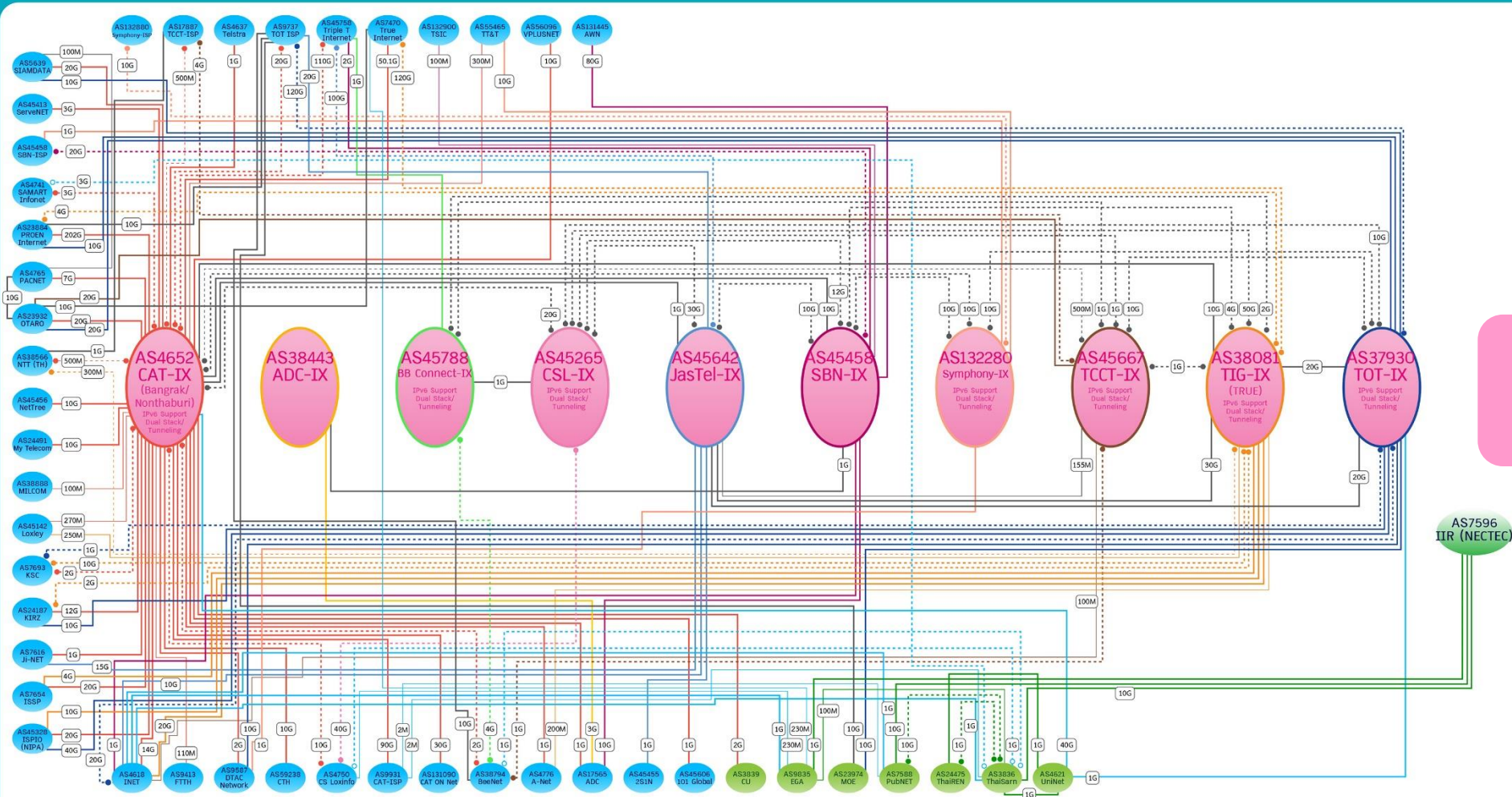# Introduction to BKNIX

MR. Kittinan Sriprasert
Network Engineer
BKNIX Co., Ltd.

What is "BKNIX" ?

- BKNIX (Bangkok National Internet Exchange)
- Non-profit, neutral and independent Internet Exchange
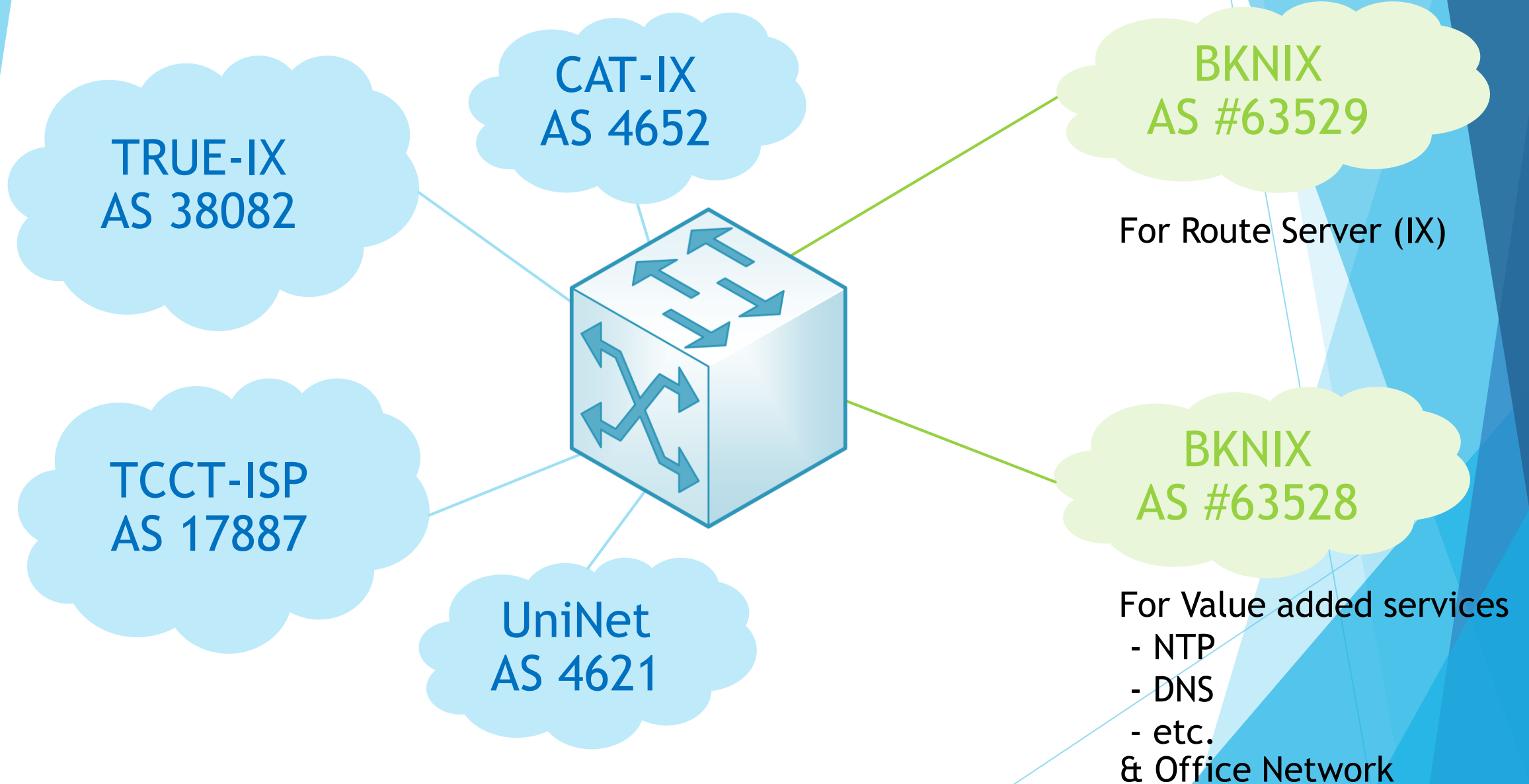- Based in Bangkok, Thailand

Thailand Internet Map
July 2014

THAILAND DOMESTIC INTERNET EXCHANGE
แผนภาพการเชื่อมต่อเครือข่ายอินเทอร์เน็ตภายในประเทศ

NECTEC

BKNIX
AS63529

Total Domestic Bandwidth
1,764.685 Gbps.
Last update: 07/08/2014

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Bangkok National Internet Exchange (BKNIX-TH)

CAT-IX
AS 4652

TRUE-IX
AS 38082

TCCT-ISP
AS 17887

UniNet
AS 4621

BKNIX
AS #63529

For Route Server (IX)

BKNIX
AS #63528

For Value added services
- NTP
- DNS
- etc.
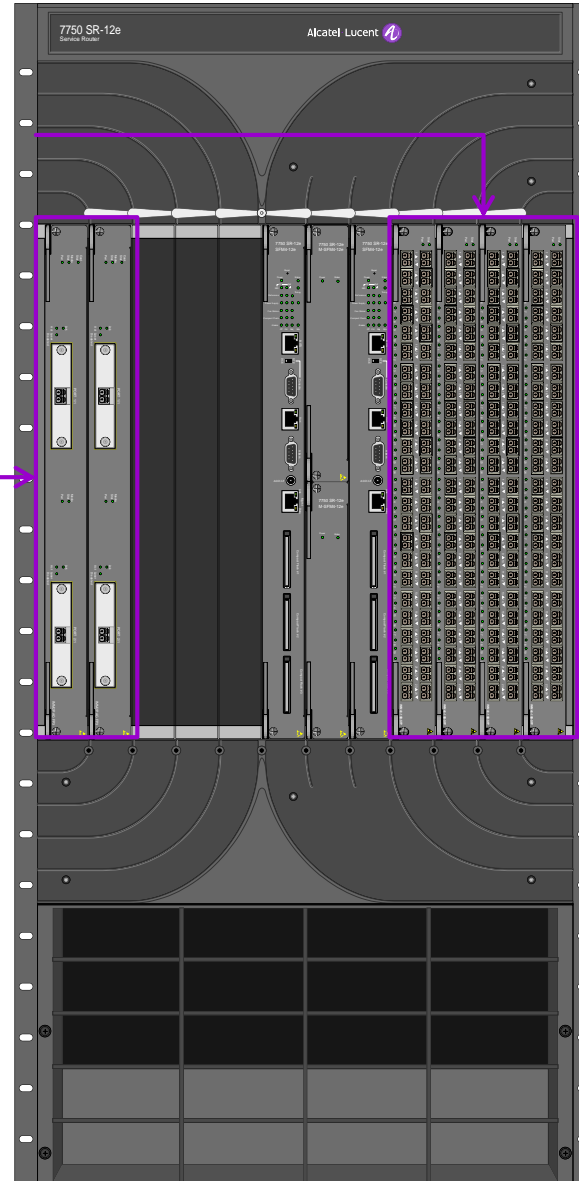& Office Network

BKNIX Main Infrastructure

08/2014

▶ Equipment:-

  ▶ 7750 SR12e : 2 units

  ▶ Network Management: None

  ▶ Documentation for 7750 SR12e – Softcopy

▶ Services:-

  ▶ Integration & Profession Services

  ▶ IP extended Warranty

  ▶ Engineering & Installation

IMM 10pt-10GE + 20pt GE L3BQ

IMM 2-pt 100G CFP L3BQ

IMM 10pt-10GE + 20pt GE L3BQ

Ganeti Cluster for Service

2 x A+ SERVER 2022G-URF4+

SC829TS-R920UBP chassis
H8DGU-LN4F+ serverboard
64 GB DIMM DDR3 1600MHz (8*8GB)
2 x AMD® Opteron® 6320 series (AMD Socket G34) 4C/8T

1x A+ SERVER 1012G-MTF

SC813MTS-350CBP server chassis
H8SGL-F serverboard
32 GB DIMM DDR3 1600MHz (4*8GB)
AMD® Opteron® 6344 series (AMD Socket G34) 6C/12T

Services

- 100 Mbit/s "FE" (100BaseT)

- 1 Gbit/s "GE" (1000BaseT, 1000BaseSX, 1000BaseLX, 1000BaseLH)

- 10 Gbit/s "10GE" (10000BaseLR, 10000BaseER)

- 100Gbit/s "100GE" (100GE-SR10, 100GE-10x10)

- Link aggregation of the above

- IPv4 and/or IPv6 (native)

- Route Servers, we have both Bird (IP Routing Daemons on UNIX systems) and Cisco Router that support both 2-byte & 4-byte AS number.

- Private account to Manage your connections, initiate peering agreement, Traffic monitoring etc.

Policy

- Openly for bilateral peering agreement (BLPA). No Multilateral peering agreement (MLPA)

- Participants may not destined of default routes unless you have permission to access participant's resources

- BGP-4 is acceptably used for peering, may not use any IGP such as RIP, OSPF, IS-IS etc.

Support