هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

IXSA

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Background

Saudi National Internet eXchange

Summary

National Internet Exchange - Why NIXP?

- Multiple international internet gateways in Saudi Arabia;

- 9 providers could have international Internet gateways;

- **No direct exchange** of traffic between those providers;

- Currently, routing part of National Internet traffic goes through **international hops;**

- Detailed **assessment** was done by CITC ;

- Workshops were conducted with Service Providers;
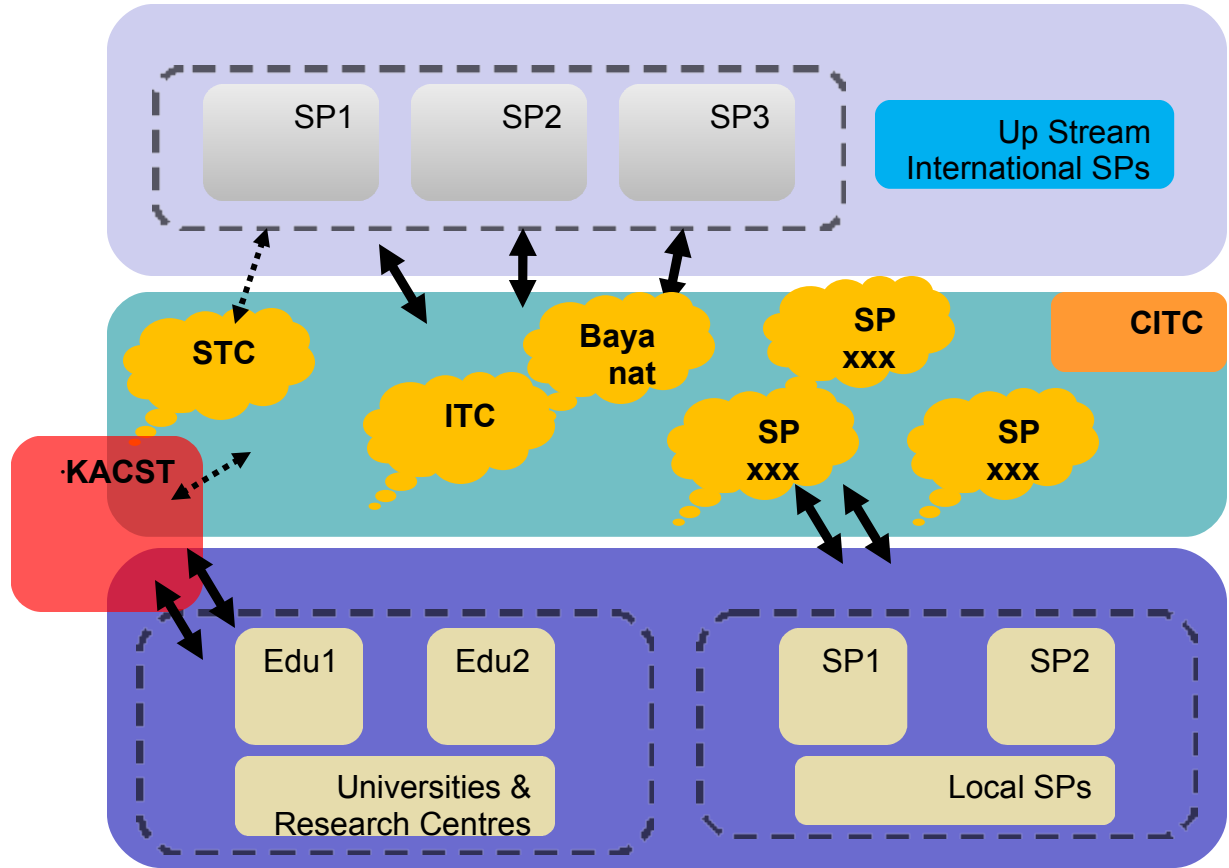
- NIXP Project;

al Oula Building
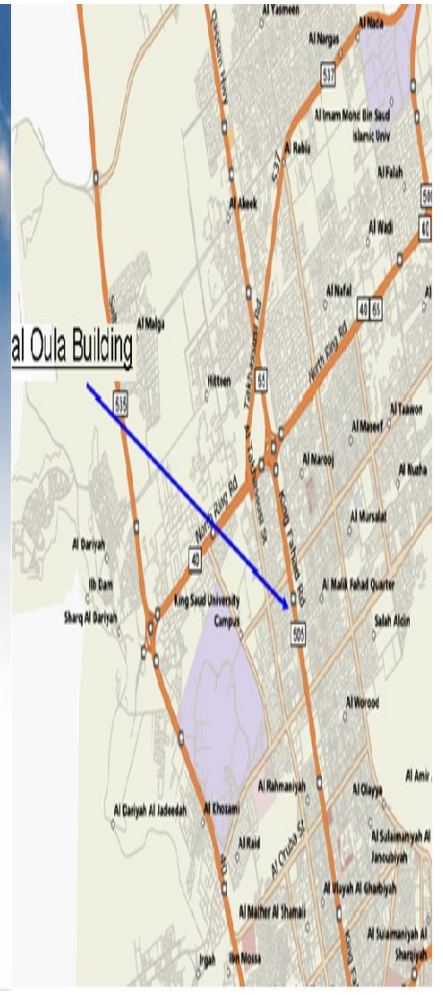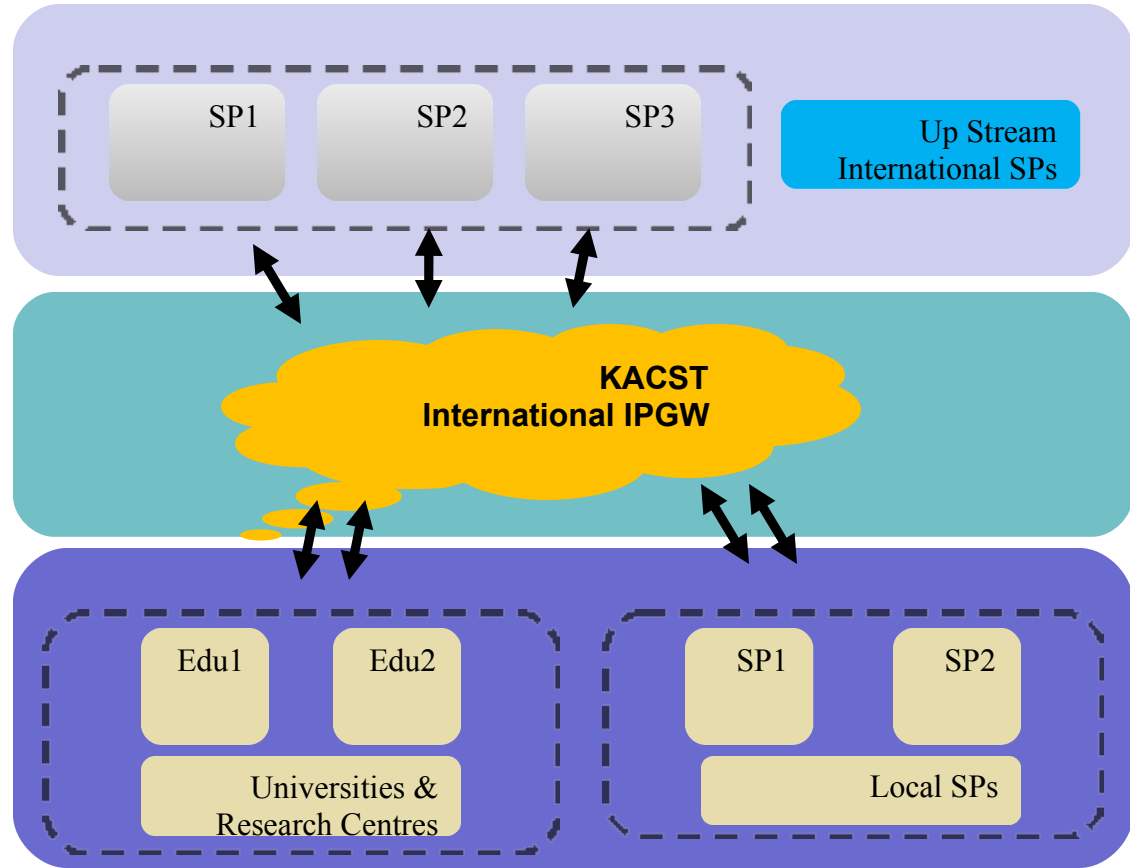
Current Internet structure

·Currently no national/local peering between DSPs

· Part of the traffic is being exchanged through international link and ISPs

· Local ISPs connected to different SPs may exchange traffic using international links and peering between International Service Provider outside KSA

· In current environments some interconnections exist between SP

SP1 SP2 SP3

Up Stream International SPs

CITC

STC

ITC

Baya nat

SP xxx

SP xxx

SP xxx

·KACST

Edu1 Edu2

Universities & Research Centres

SP1 SP2

Local SPs

National Internet eXchange Project

National Internet eXchange Project

Gap Analysis

·**National IX**
·**Peering Policy**
·**Phased Approach**

Benchmarking

Review of the necessity & model for a National Internet Exchange Point

Assessment of Internet in Saudi Arabia

Face-to-Face Meetings with Stakeholders
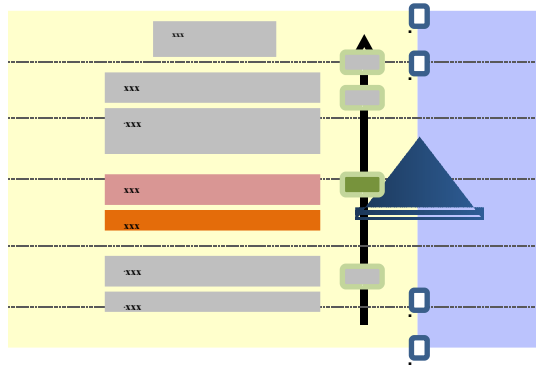
Q1

Q4

Q2-Q3

Q1

Benchmark

- Benchmarking Over 15 countries;

- Neutrality was a key issue

Ownership	Growth potential	Ease of initiation	Neutrality	Competence level
University / Research	◔	◕	◔	◕
Non-profit ISP Association	◕	◔	◑	●
Governmental/ Institutional	◔	◑	●	◔
Private ISP ownership	◑	◕	○	◕
Incumbent Telco	◔	◑	○	◔
Telehousing Companies Telecom Hotel	◕	◑	◑	◑

Legend:

Highest Score ●

Lowest Score ○

Strategy

Phase 1 | Phase 2 | Phase 3

IXP
Peering
Policy

·Performance
· Scalability
· Security

·RFP
·Building

Members
All International Internet
GW Service Providers

Review Members list

Open License for National IX

Start SP-Forum

Self-
regulation

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National Internet eXchange Project (IX.SA)

Objective

- Keep the national internet traffic locally;
- Increase the current level of Internet services to meet national needs (security, performance, reliability and costs);
- Facilitate National Internet interconnection;
- Kick off MAY 2008

Project Scope

- Design, Build, and Operate an Internet eXchange;
- Located in **two different sites** with redundant infrastructure;
- Allow Peering for **approved Members;**
- **Secured** environment and services;
- High Availability;

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IXSA Facility
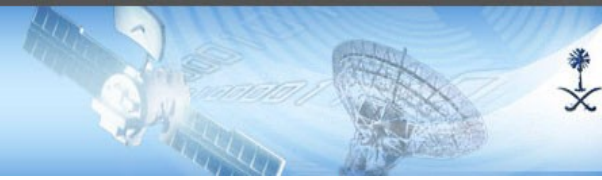
- *Adequate Floor/Rack Space*

- *Redundant Power Supply*

   [UPSs, Batteries, Generator]

- *Provide a neutral carrier environment*

Current Status

Members	Status
Mobily	Connected
Bayanat	Connected
ITC	Connected
Athzeeb	Connected
KACST	
STC	
Zain	
PCCW/Verizon	New License

- Soft Launch: 1/2009
- Ripe AS 47606 & IP
- Web: www.ix.net.sa
- Ready for Commissioning
- 2nd Site Work in Progress in Jeddah

Thank You

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