Djibouti Internet Exchange Point

Keeping Regional Internet Traffic Local

Agenda

- Background
- Djibouti Telecom Internet Infrastructure Overview
- Djibouti Internet Exchange Point

Background

➢ High International Bandwidth cost when exchanging domestic and regional traffic

➢ High Latency: Regional or local traffic is sent overseas and comes back between POPs. In terms of QoS, the goal is to keep the traffic through its shortest path, with the minimum latency as much as possible

➢ Growing demand in Internet bandwidh with the new Submarine Cables serving East Africa coastline countries

DT Internet Infrastructure Overview

Submarine Cables

- Sea Me We 3
- EIG
- SEACOM
- EASSy
- Aden Djibouti
- Djibouti Addis Abeba
- Djibouti Hargeisa
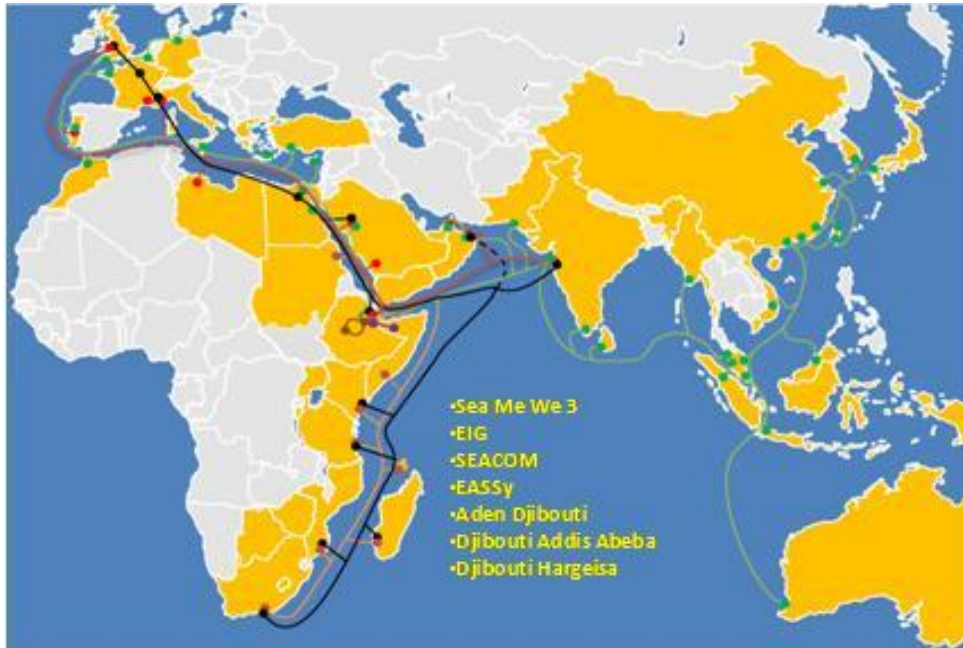
The leading operator on submarine cable diversity in the region

Djibouti is the leading strategic hub connecting Europe , the Middle East and Asia regions with Africa.

Direct connectivity with neighboring countries (Ethiopia, Somalia, Yemen)
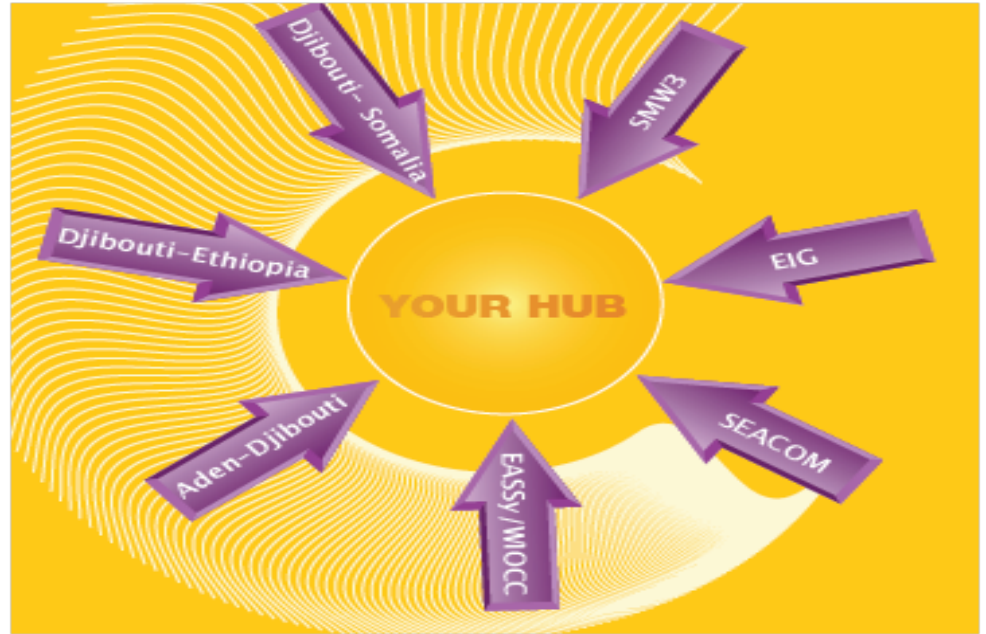
DT Internet Infrastructure Overview

Diverse Tier One IP Nodes

- Telecom Italia Sparkle IP Node since 2010
- Level 3 IP Node since 2012
- Saudi Telecom IP Node since 2012

DT Internet Infrastructure Overview

Djibouti Data Center:

In order to boost the peering activities and attract major internet actors DT has Developed a Tier 3 Data center where cables meet

Djibouti Internet Exchange Point

The Djibouti Internet Exchange point launched in February 2014 at the DDC facilities will allow:

- Customers, carriers, ISPs, and others to keep local traffic in East Africa local by reducing the need to exchange traffic at other peering points outside of the region.
- Reducing latency
- Faster Connectivity
- Lower cost for network operators and internet users in East Africa

Djibouti Internet Exchange Point

The DDC DIX Ecosystem advantages

- Tier 3 carrier neutral data center

- Meet-Me Room for simple and cost effective cross connects to others in the DDC

- Collocation – Smart Hands support

- Cable head access, cross connect, and backhaul

- Reduced tariff for new DIX customers

Djibouti Internet Exchange Point

To improve local Internet performance, efficiency, resilience, and cost by keeping local and regional traffic local, DT aims to develop its IXP in 3 phases:

Djibouti Internet Exchange Point

Phase 1: Djibouti is connected with regional countries by fiber and thus will be able to aggregate the regional traffic
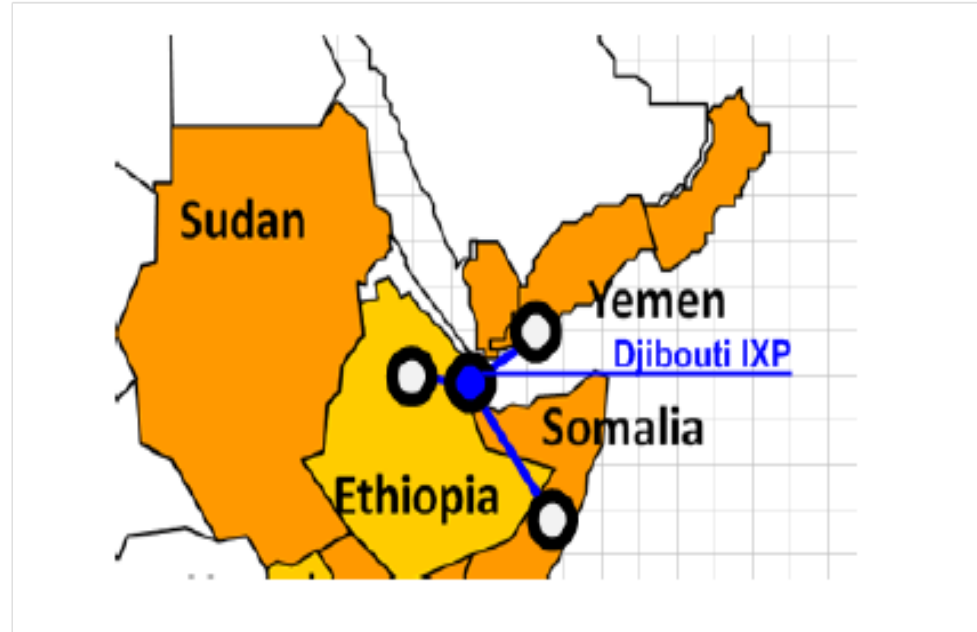
Djibouti Internet Exchange Point

Phase 2: Djibouti will connect with other major East Africans IXPs

Djibouti Internet Exchange Point

Phase 3:
As a result, thanks to its geographical situation, the next natural step for Djibouti Internet Exchange Point is to play an important role in the peering activities for the region by linking East African IXPs to major European and the Middle Eastern IXPs
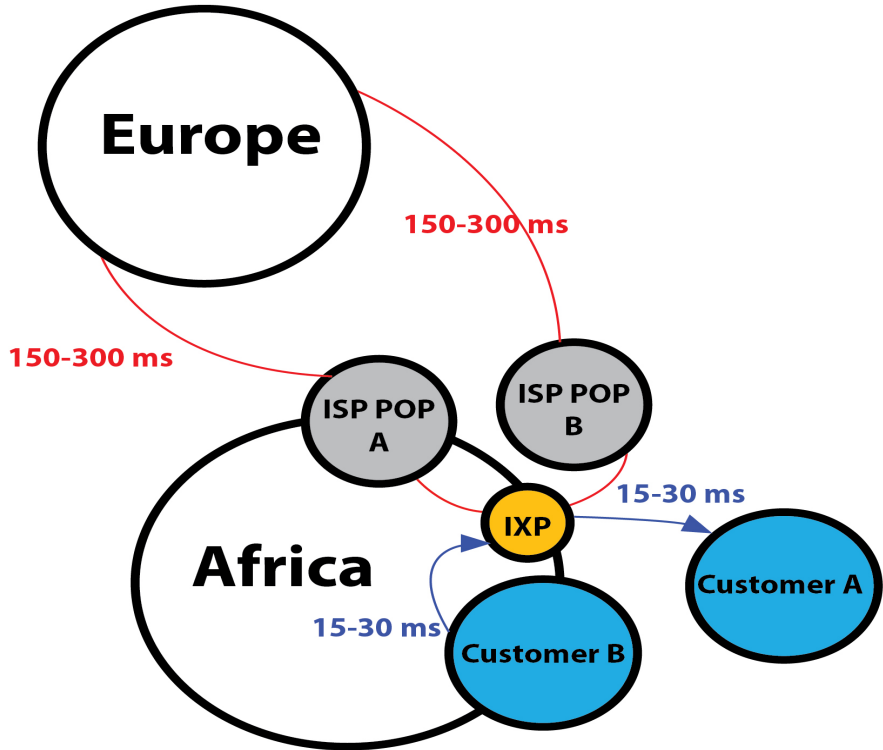
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