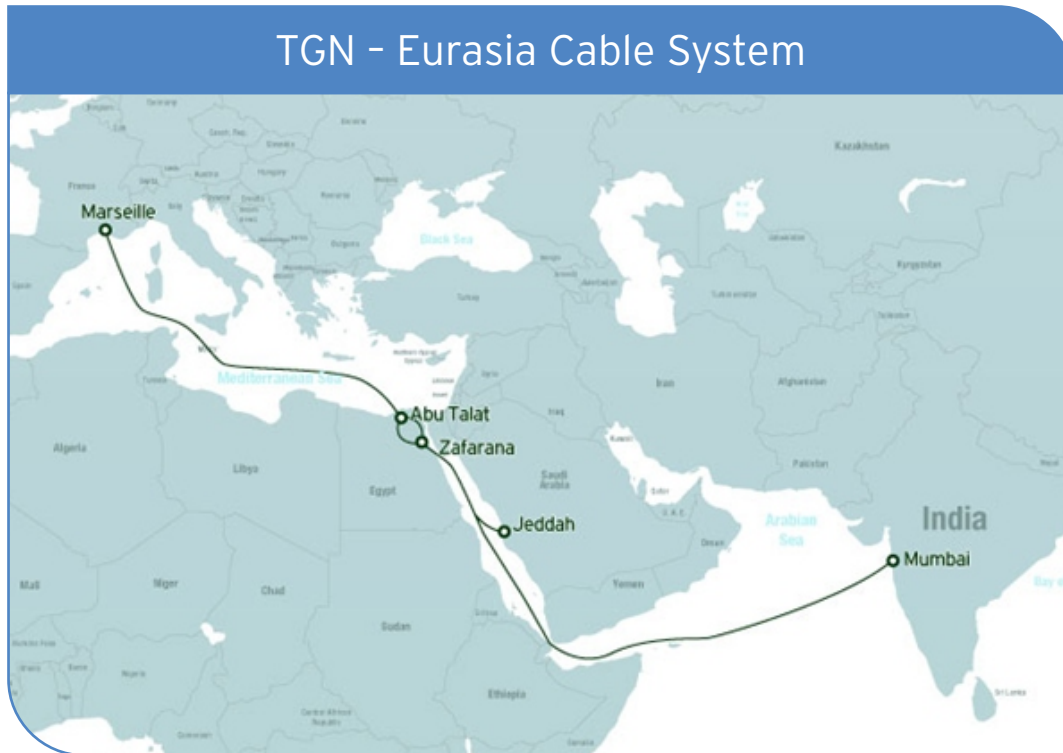


## TGN - Eurasia Cable System

The TGN-Eurasia(TGN-EA) completes Tata Communications' multi-terabit global ring network.



TGN-Eurasia, or TGN-EA, is a 9,280 Km multi-terabit cable system interconnecting Mumbai in India with Marseille in Europe. The two fiber based cable system would offer the lowest latency, estimated to be 92 msec, between India and Europe on the express fiber route. When combined with Tata Global Network's (TGN) other cable systems like TIC, Intra-Asia, Pacific, Atlantic and European ring, the TGN-EA will complete Tata Communications multi-terabit global ring network. It will enable PoP to PoP connectivity allowing customers to terminate capacity at Mumbai or at Marseille and also at TGN PoPs across. The cable system also offers full bandwidth solutions ranging from E1 to 10G capacity.

The system integrates seamlessly with Tata Communications global network infrastructure and is a strong complement to existing cable systems on the India to Europe route. When compared to SMW3/SMW4/IMEWE, TGN-EA would offer route diversity including diversity through a terrestrial route in Egypt without touching Alexandria & Suez CLS



The two fiber based cable system would offer the lowest latency, estimated to be 92 msec, between India and Europe on the express fiber route.

## Partnerships

In order to extend the TGN-Eurasia cable systems into Emerging markets of Middle East and North Africa, Tata Communications has partnered with Mobily for branching of the cable system into Jeddah, Saudi Arabia. This would help us in extending the reach into Saudi Arabia as well as to countries around through our partner.

We are also working with Telecom Egypt towards dropping of TGN-EA capacity in Egypt for connectivity into Egypt and also extending the reach to countries like Libya, Cyprus, Sudan, Jordan, Syria etc through Telecom Egypt.

These two partnerships would help Tata Communications to offer IPL and other services into these emerging markets.

## Design

The TGN-Eurasia is a linear cable system between Mumbai, India and Marseille with Day one branching into Jeddah, Saudi Arabia.

The DWDM based system is equipped with four branching units and is designed with two fiber pairs delivering capacity upto 1.28 Tbps. One of the fiber is an express route between India and Europe.

In Egypt, TGN-EA terrestrial paths between Abu Talat CLS and Zafarana CLS. This route is completely diverse from other cable systems like SMW4 & IMEWE.

### IPL Services

- Tata Communications offers IPL services of all speeds using TGN-Eurasia: E1, DS3, STM-1, STM-4, STM-16, STM-64 and 10G wavelengths.
- The IPL connections via TGN-Eurasia can be extended seamlessly to Asia, Rest of Europe and also North America via Tata Communications self owned cable system
- The TGN-Eurasia cable system offers PoP to PoP service which allows customers to terminate capacity at Mumbai or at Marseille and also at TGN PoPs across. The termination points at Mumbai and Marseille are as below :
  - Mumbai - VSB, Fort, Mumbai
  - Marseille - Neuf Cegetel, Net center - 40 Avenue Roger Salengro, 13003 Marseille, France

Estimated Round-Trip-Delay (Msec)			
	Mumbai	Marseille	Jeddah
Mumbai		92	52
Marseille	92		52
Jeddah	52	52	