

# Capacity Services

## Providing Global Capacity Services & Dark Fibre as Leases and IRU

Capacity Services are the backbone of the global telecommunications system. Bandwidth demand is growing. Where once 2Mbps was “the norm”, for leased services, 100Gbps and requirements for 400Gbps are now the standard. Customers also require capacity & dark fibre services outside of traditional leased lines. FLAG operates one of the world’s largest privately owned subsea cable networks with end-to-end connectivity with a variety of routing options.

## High Speed Dedicated Bandwidth on a Privately-Owned Subsea Network Circling the Globe

Our Optical Wavelength Services are built on our own subsea network, stretching from New York to Tokyo via the Atlantic, Europe, the Middle East, India, and Asia, with onward connectivity back to the West Coast of the US.

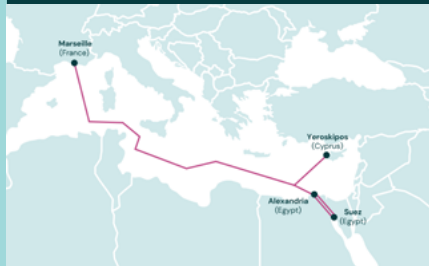
This includes:

### FA-1 Our Trans-Atlantic Cable System



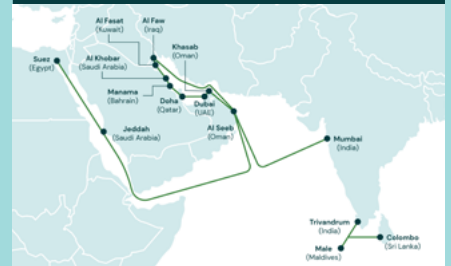
A privately owned fully resilient loop offering protected and unprotected capacity options with one of the lowest latency subsea route between USA & mainland Europe, connecting into both London & Paris from its North & South paths directly.

### HAWK Our Mediterranean Cable System



An Express system connecting Europe to Middle East with diverse paths across Egypt with a branching unit into Cyprus.

### FALCON Our India, Middle East & African Cable System



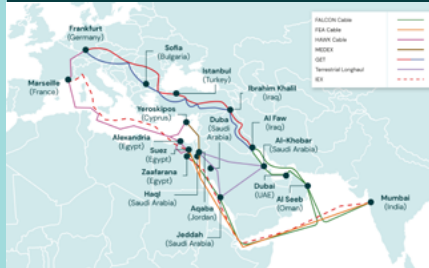
The most extensive subsea cable in the Middle East landing in 14 countries touching all countries across the Arabian Peninsula.

## FNAL Our Asian Cable System



A Resilient loop cable offering protected and unprotected capacity options with connectivity into Taiwan, Hong Kong, Japan & South Korea. The cable is extended to popular interconnect locations enabling seamless connectivity to South-East Asia and US.

## MEEM Our Middle East/Europe Mesh



To complement our Falcon & Hawk Subsea systems and to provide resiliency, diversity across the Middle East into Europe we have also built out multiple terrestrial paths avoiding geopolitically sensitive subsea segments with our Gulf European Transit path from Iraq – Turkey Into FR5 (Frankfurt) and also a diverse Saudi terrestrial path that links Al Khobar to Jeddah & Haql with 2 diverse options.

## GET Our Gulf Europe Transit



GET is a protected path transiting Iraq and South-Eastern Europe, using terrestrial networks from Iraq to Frankfurt and interconnected with FALCON.

## MEDEX Our Mediterranean Express Route



MEDEX is a fully diverse and unique route connecting Middle East and Asia to Europe through a fully diverse link across Saudi Arabia.

## Our Indian Subcontinent Systems

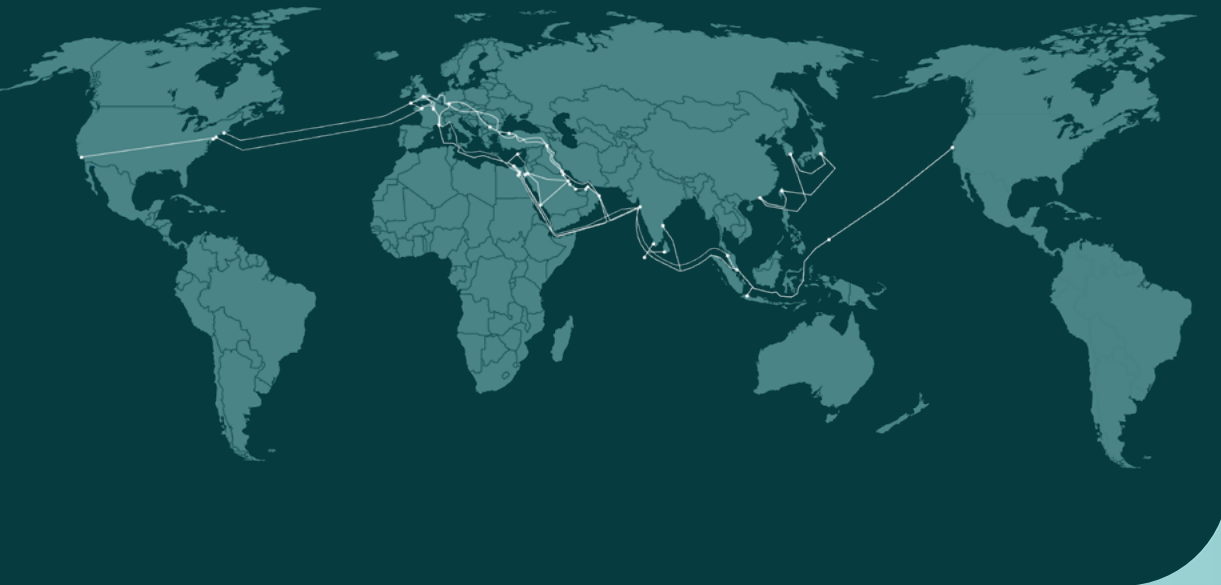


With FLAG now holding its own ILD license in India, combined with our established network presence through the Middle East–Europe Mesh and recent investments towards Singapore, we are now positioned to deliver seamless services connecting Europe, the Middle East, Singapore, and the broader APAC region to India.

## Planned Investment for a Trans-Pacific Cable System



This mid-Trans Pacific system will establish direct connectivity from California and the U.S. West Coast to Jakarta and Singapore as its primary branching units, enabling multiple 100Gs between these locations.



FLAG looks to invest further within Asia & across the Pacific adding routes from the Middle East to India, India onwards to Singapore and from Singapore to the rest of Asia and across the Pacific.

## A Key Building Block of the Digital Ecosystem

We have transformed our network to connect the worlds digital ecosystems. By interconnecting to key locations across our next generation global network we have ensured that we are in all the locations you need offering reliable, high capacity, end-to-end connectivity. Enabling us to provide connectivity from Asia, through to the Middle East, into Europe and across into the US, via our own privately-owned network.

## Connectivity Where You Need It

While our own private network covers key global routes, FLAG can offer route redundancy and access to alternative major cities through relationships with other carriers and cable systems. Through this FLAG can offer fully diverse connectivity solutions directly to where your customers are located.

## Reliability and Service Availability

Our global network has been designed and engineered to withstand disruption and to ensure the highest levels of service availability and continuity. Additionally, all our Capacity services come with optional protection (either end-to-end or on key segments). Further, secure hardware based encrypted waves using AES-256-GCM can be provided where required.

By using the latest DWDM transponders, support for Protection Switching under 50ms, equipment redundancy (built into SLTE, PFE, power), dual landings, double armored casing and buried cable where necessary, we ensure our network provides some of the highest levels of service availability in the industry.

And because our network is based on a private cable system owned and run by FLAG, we have operational control of every network element meaning we can prioritise restoration or provide alternative paths quickly and efficiently, reducing the impact on your customers and applications.

# Key Features

## FLAG Product Options

- Wavelength Services for 10, 100 and 400 Gbit/s bandwidths
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## End-to-End Connectivity

- Layer 1 transmission services
  - Optional hardware based encryption based on AES-256 standard
  - FLAG PoP to FLAG PoP
  - Local tail(s) optional
  - Full circuit by default (half-circuit in regulated markets)
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## Transport

- OTN & DWDM transmission
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## Interfaces Supported

### 1. Ethernet

- 1GE
- 10GE-LAN-PHY and WAN-PHY
- 100GE
- 400GE

### 2. OTN

- ODU0 (1 Gbps)
  - ODU1 (2.5 Gbps)
  - ODU2 (10 Gbps)
  - ODU2e (10 Gbps)
  - ODU3 (40 Gbps)
  - ODU3e (40 Gbps)
  - ODU4 (100 Gbps)
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## Protection

- Unprotected by default
  - Protected option
  - Segment-Specific Protection available
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## Service Level Agreements

- Service Availability
  - 99.5% (unprotected services)
  - 99.9% (protected services)
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## Service Delivery

- Standard – 20 working days
  - Premium fast-tracked – 5-7
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## Commercial Features

- Wide range of contract terms available from 12 months to long-term Right of Use
  - Billing available in a variety of currencies including USD, GBP, EUR, SGD, JPY
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## Legacy services

### IPLC – for channelised SDH BW with

- SDH, SONET supported
  - Interface- STM-64, other interface on demand
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