



DATA MADE SCALABLE

# WAVELENGTH

DEDICATED GLOBAL CAPACITY AT UP TO 400 GBPS DIRECT ACROSS THE GCX NETWORK

Point-to-point international capacity and leased lines are the backbone of the global telecommunications system. Bandwidth demand is growing. Where once 2Mbps was “the norm”, now it’s 100Gbps and requirements for 400Gbps are growing. GCX operates the world’s largest private subsea network with end-to-end connectivity up to 400G with a variety of routing options.

HIGH SPEED DEDICATED BANDWIDTH ON A PRIVATELY OWNED SUBSEA NETWORK CIRCLING THE GLOBE.

Our Wavelength Services are built on our own subsea network, stretching from New York to Tokyo via the Atlantic, Europe, the Middle East, India, and South East Asia, with onward connectivity back to California. This includes:

- FA-1 – (transatlantic) A totally separate resilient loop, offers the lowest latency subsea route between USA & mainland Europe
- HAWK (Europe-Middle East) Express system connecting Europe to Middle East with diverse redundant paths across Egypt
- FALCON (Middle East-Asia) The most extensive subsea cable in the Middle East landing in 14 countries
- FEA (Europe-Asia) Subsea route from UK to Egypt, diverse, unique paths across Egypt, express crossing over Thailand
- FNAL (Intra-Asia) Resilient loop with lowest latency path between Hong Kong & South Korea

With Wavelength services up to 400Gbps, ours is the network of choice for Telcos, OTTs, Data Centre operators and enterprises looking for high capacity dedicated connectivity within the Mediterranean, Middle East, Asia or across the Atlantic.

And because ours is a privately-owned network, you can be sure that upgrades and bespoke routes can be handled swiftly and efficiently, meaning you will not be left waiting while consortium members debate the pros and cons among themselves.

A KEY BUILDING BLOCK OF THE DIGITAL ECOSYSTEM

We have transformed our network to connect the world’s digital ecosystems at speeds of up to 400Gbps (and beyond). By interconnecting to key locations across our next generation global network we have ensured that we are in all the locations you need us to be in offering reliable, high capacity, end-to-end connectivity. Enabling us to provide connectivity from Tokyo, Taipei, Seoul, Hong Kong, Singapore, Silicon Valley, London, New York, Dubai, Doha, Manama, Kuwait City to Aqaba, all via our own privately owned network.



## CONNECTIVITY WHERE YOU NEED IT

While our own private network covers key global routes, GCX is able to offer route redundancy and access to alternative major cities through relationships (IRU, leased capacity and Spectrum etc) with other carriers and cable systems. Through this GCX 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 Wavelength 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 armoured 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 GCX, 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

### GCX Product Options

- Wavelength Services for 10, 100 and 400 Gbit/s bandwidths
- IPLC – for legacy channelised SDH bandwidths
- ODU2e (10 Gbps)
- ODU3 (40 Gbps)
- ODU3e (40 Gbps)
- ODU4 (100 Gbps)

### End-to-End Connectivity

- Layer 1 transmission services
- Optional hardware based encryption based on AES-256 standard
- GCX PoP to GCX PoP
- Local tail(s) optional
- Full circuit by default (half-circuit in regulated markets)
- 3. SDH
- STM-64
- Other interfaces upon demand

### Transport

- SDH & DWDM transmission
- SONET supported

### Interfaces Supported

1. Ethernet
  - 10GE-LAN-PHY and WAN-PHY
  - 100GE

### OTN

- ODU0 (1 Gbps)
- ODU1 (2.5 Gbps)
- ODU2 (10 Gbps)

### Protection

- Unprotected by default
- Protected option.
- Segment-Specific Protection available

### Service Level Agreements

- Service Availability
- 99.5% (unprotected services)
- 99.99% (protected services)

### Service Delivery

- Standard – 20 working days
- Premium fast-tracked – 5-7

### 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