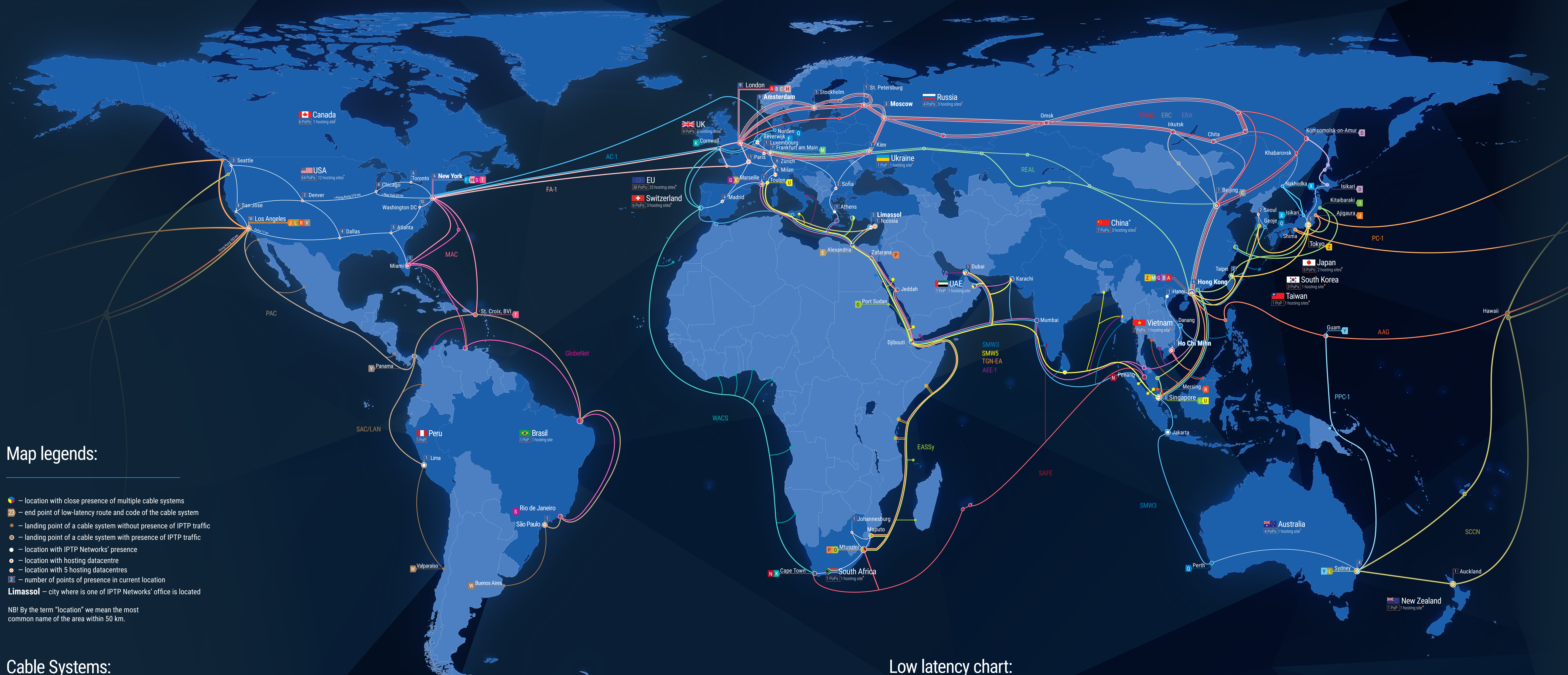# IPTP Networks

www.iptp.net

IPTP Networks' global network, points of presence and operated low latency routes map in 2017.
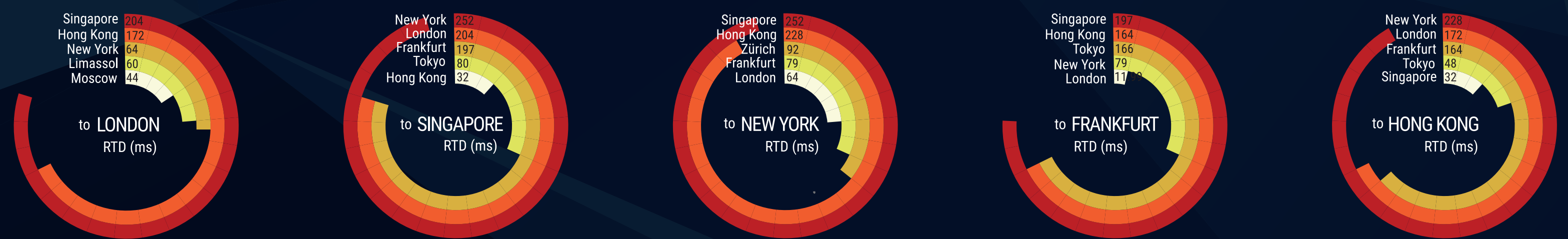
Map legends:

- location with close presence of multiple cable systems
- 28 – end point of low-latency route and code of the cable system
- landing point of a cable system without presence of IPTP traffic
- landing point of a cable system with presence of IPTP traffic
- location with IPTP Networks' presence
- location with hosting datacentre
- location with 5 hosting datacentres
- 2 – number of points of presence in current location

Limassol – city where is one of IPTP Networks' office is located

NB! By the term "location" we mean the most common name of the area within 50 km.

Map labels

Seattle, Canada (6 PoPs, 1 hosting site), USA (54 PoPs, 12 hosting sites), Toronto, Chicago, Denver, San Jose, Los Angeles, Dallas, Atlanta, Washington DC, New York, Miami, St. Croix, BVI, Panama, Lima, Peru (1 PoP, 1 hosting site), Brasil (1 PoP, 1 hosting site), Valparaiso, Rio de Janeiro, São Paulo, Buenos Aires

London, Amsterdam, Stockholm, St. Petersburg, Russia (4 PoPs, 3 hosting sites), Moscow, Omsk, Irkutsk, Chita, Khabarovsk, Komsomolsk-on-Amur, UK (9 PoPs, 3 hosting sites), Norden, Beverwijk, Luxembourg, Frankfurt am Main, Kiev, Ukraine (1 PoP, 1 hosting site), Cornwall, Paris, Zurich, Milan, EU (38 PoPs, 25 hosting sites), Switzerland (6 PoPs, 3 hosting sites), Marseille, Toulon, Madrid, Sofia, Athens, Limassol, Nicosia, Alexandria, Zafarana, Port Sudan, Jeddah, Djibouti, Dubai, UAE (1 PoP, 1 hosting site), Karachi, Mumbai, China (7 PoPs, 3 hosting sites), Beijing, Nakhodka, Isikari, Kitaibaraki, Ajigaura, Seoul, Geoje, Shima, Tokyo, Japan (5 PoPs, 2 hosting sites), Taipei, Hong Kong, South Korea (3 PoPs, 1 hosting site), Taiwan (1 PoP, 2 hosting sites), Hanoi, Danang, Vietnam (3 PoPs, 1 hosting site), Ho Chi Minh, Guam, Jakarta, Penang, Mersing, Singapore, Johannesburg, Maputo, Mtunzini, Cape Town, South Africa (3 PoPs, 1 hosting site), Perth, Australia (4 PoPs, 1 hosting site), Sydney, Auckland, New Zealand (1 PoP, 1 hosting site), Hawaii

Route/cable labels on map

AC-1, FA-1, FA-1, MAC, PAC, SAC/LAN, GlobeNet, REAL, ERC, ERA, PC-1, AAG, PPC-1, SCCN, SMW3, SMW5, TGN-EA, AEE-1, WACS, EASSy, SAFE

Cable Systems:

Europe-Russia-Mongolia-China (ERMC)
Latency: Hong-Kong - London 185/195 ms.
Capacity: up to 400 Gbit/s.

ERA or Europe-Russia-Asia
Latency: 500 km
Moscow - Amsterdam   37 ms

ERC or Europe-Russia-China
Latency: Hong-Kong - London 230/240 ms.

HSCS or The Hokkaido-Sakhalin Cable System
Length: 500 km
Latency: Japan-Russia 5.6 ms in theoretical value
Capacity: up to 640 Gbps.

ALEXANDROS
Latency: Cyprus-Egypt 7 ms
Cyprus-France 17 ms
Capacity: 96x100Gbps

Atlantic Crossing-1 (AC-1)
Length: 14,000 km.
Lit capacity: 120 Gbit/s
Latency: U.S. - U.K. 64/65 ms.

Asia Africa Europe-1 (AAE-1)
Length: 25,000 km
Capacity: 40 Tbps.

FLAG Atlantic-1 (FA-1)
Length: 14,500 km.
Lit capacity: 4.8 Tbps
Lit capacity: 620 Gbit/s.
Latency: London - New York 71 ms.
Paris - New York 71ms.

APCN-2 or Asia-Pacific Cable Network 2
Length: 19,000km
Latency: Singapore - Japan 86 ms.
Capacity: 2.56 Tbps

PC-1 or Pacific Crossing 1
Length: 21 000 km
Latency: Tokyo - Seattle 83 ms
Tokyo - Los Angeles 110 ms

West African Cable System (WACS)
Length: 14,530

Southern Cross Cable Network (SCCN)
Length: 30,000 km

Rapid Europe Asia Link (REAL)
Lit capacity: Hong Kong - Frankfurt 158 ms

SAFE (The South Africa Far East)
Length: 13,104 km
Latency: Mtunzini - Malaysia 95 ms.

EASSy (The Eastern Africa Submarine Cable System)
Length: 10,000 km
Capacity: 10Tbps
Latency: S. Africa-London = 200ms
Mtunzini - Port Sudan 94 ms.

TGN-EA (TGN-Eurasia)
Length: 9,280 km
Latency: India - Marseille = 95 ms,
India - Jeddah = 60ms,
India - Egypt ~70 ms,
Mtunzini - Zafarana 115 ms
Mtunzini - Mumbai 93 ms

South East Asia – Middle East – Western Europe 3
Length: 39,000 km

South East Asia – Middle East – Western Europe 5 (SEA-ME-WE 5)
Length: 20,000 km
Design capacity: 24 Tbps

Asia-America Gateway (AAG) Cable System
Length: 20,000 km
Capacity: 2.88 Tbit/s (Hawaii - Hong Kong)

GlobeNet
Length: > 23,500 km
Design capacity: 1.36 Tbit/s

Mid-Atlantic Crossing (MAC)
Length: > 7,500 km
Design capacity: 920 Gbps

Pan-American Crossing (PAC)
Length: 19,000km
Design capacity: 800 Gbps.

South American Crossing (SAC)/ Latin American Nautilus (LAN)
Length: 20,000 km

The RJCN (or Russia-Japan Cable Network)
Length: 1800 km
Design capacity: 640 Gbps.
Latency: Tokyo - London = 196 ms.

South East Asia-Middle East-Western Europe 5 (SEA-ME-WE 5)
Length: 20,000 km
Design capacity: 24 Tbps

PIPE Pacific Cable-1 (PPC-1)
Length: 7,000 km
Capacity: 2.56 Tbps

FLAG North Asia Loop/REACH North Asia Loop
Length: 10,000 km

Low latency chart:

to LONDON RTD (ms)
Singapore, Hong Kong, New York, Frankfurt, Limassol, Moscow

to SINGAPORE RTD (ms)
New York, London, Frankfurt, Tokyo, Hong Kong

to NEW YORK RTD (ms)
Singapore, Hong Kong, Zurich, Frankfurt, London

to FRANKFURT RTD (ms)
Singapore, Hong Kong, London, Tokyo, New York

to HONG KONG RTD (ms)
New York, London, Frankfurt, Tokyo, Singapore

IPTP Networks is a global Tier 2 Internet Service Provider (AS41095), Systems Integrator and Software Development company. Operating a privately owned, redundant EoMPLS network it establishes secure connectivity across Europe, Asia, Russia, Africa, Oceania and the Americas. Cooperating with close to a 1000 peering partners, with access to all the major Internet Exchanges such as DE-CIX, HK-IX, Equinix, LINX, MSK-IX, TelX and others, the company offers its services in 54 hosting data centers and 137 data centers ON-NET, covering 25 countries and 45 cities worldwide. IPTP Networks is a One-Stop-IT-Shop, and provides custom-designed solutions, specializing in: MPLS, Internet, Dedicated Hosting, Co-location, Security, DDoS Mitigation, IP Transit, IX Transit, High Availability Clusters, Unified Communications, Mobile Communications, Private Cloud and CDN, ERP & CRM systems.