

 iSOLUTIONS

CMI Enterprise Solutions

One-stop infrastructure-based solutions
to expand your business globally



About us | CMCC

China Mobile Communications Corporation (CMCC)

- China Mobile Communications Corporation was established on April 20, 2000. It has a registered capital of 300 billion Yuan and assets of more than one trillion Yuan.
- China Mobile owns 72.72% of China Mobile Limited which is listed on the New York Stock Exchange (NYSE:CHL) and The Stock of Hong Kong Limited (HKEx: 0941).
- China Mobile boasts the world's largest network and customer base with high market and brand value.

3.09 MILLION
4G Base Stations

775 MILLION*
4G Customers



*As of Dec 2020



264 COUNTRIES
International
Roaming

941 MILLION
Mobile Subscribers



10 YEARS

BRANDZ

No.27

**FORTUNE
500**

No.56



iCONNECT
Carrier
Market

iSOLUTIONS
Enterprise
Market

CMLink JegoTrip
Mobile User
Market

China Mobile International Limited (CMI)

- China Mobile International Limited (CMI) is a wholly-owned subsidiary of China Mobile Limited, mainly responsible for the operation of China Mobile's international business.
- In order to provide better services to meet the growing demand in the international telecommunications market, China Mobile established a subsidiary, CMI, in December 2010. Leveraging the strong support by China Mobile, CMI is a trusted partner that provides comprehensive international telecom services and solutions to international enterprisers, carriers and mobile users.
- Headquartered in Hong Kong, CMI has expanded our footprint in 22 countries and regions.

Our Vision

A seamless, carefree and borderless digital life globally

Our Mission

To be a future contributor of China Mobile's global value and a trustworthy partner in the industry



37

Footprints
Worldwide



APAC

China (4) | Singapore | Malaysia |
Thailand | Sri Lanka |
Bangladesh | Japan | Korea |
Australia | Indonesia |
Philippines | India | Vietnam |
Cambodia | Laos | Myanmar



Europe

U.K. | Germany | France | Russia |
Kazakhstan | Luxembourg |
The Netherlands | Spain | Italy



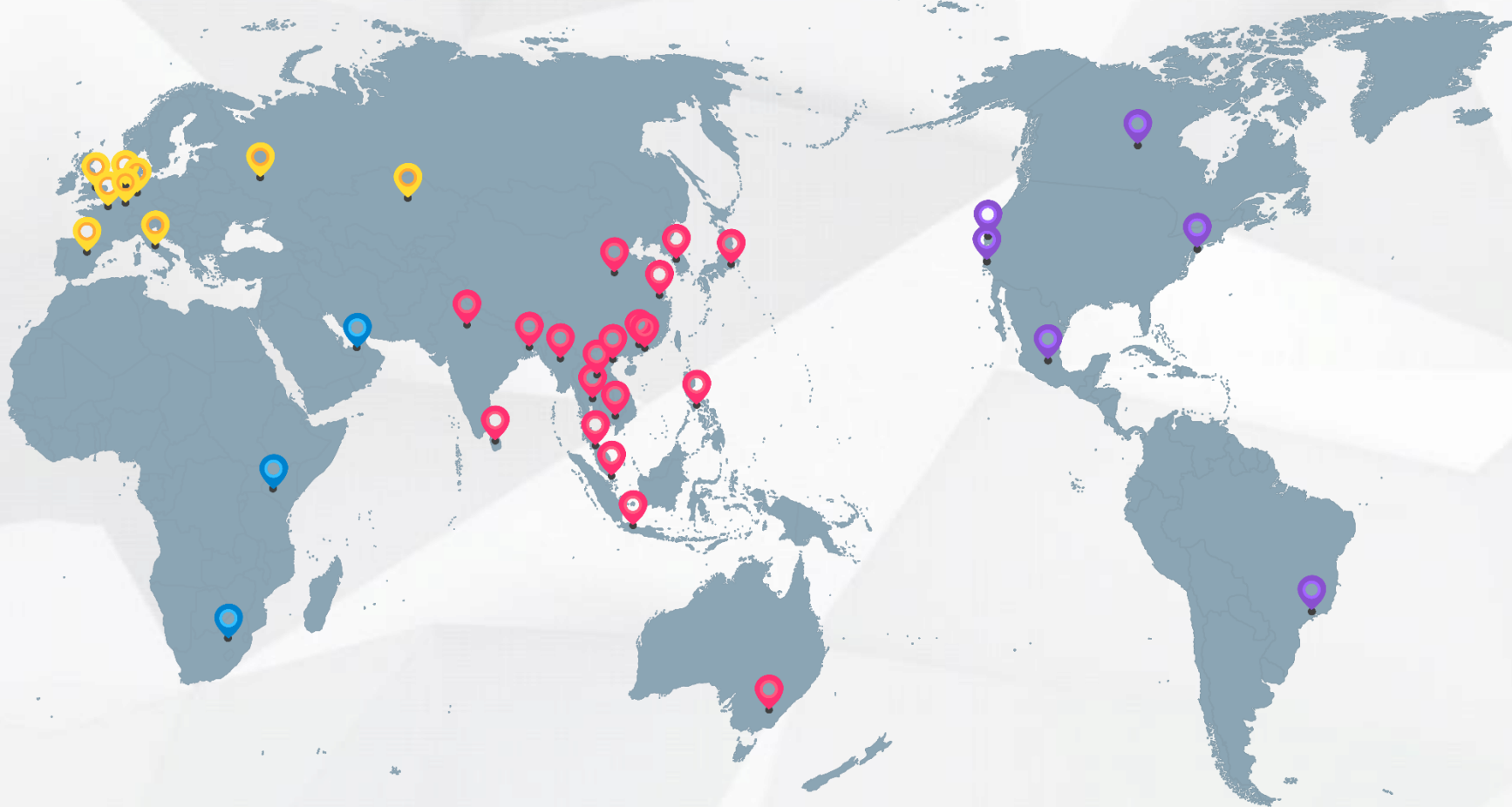
Africa and the Middle East

Kenya | South Africa | U.A.E.

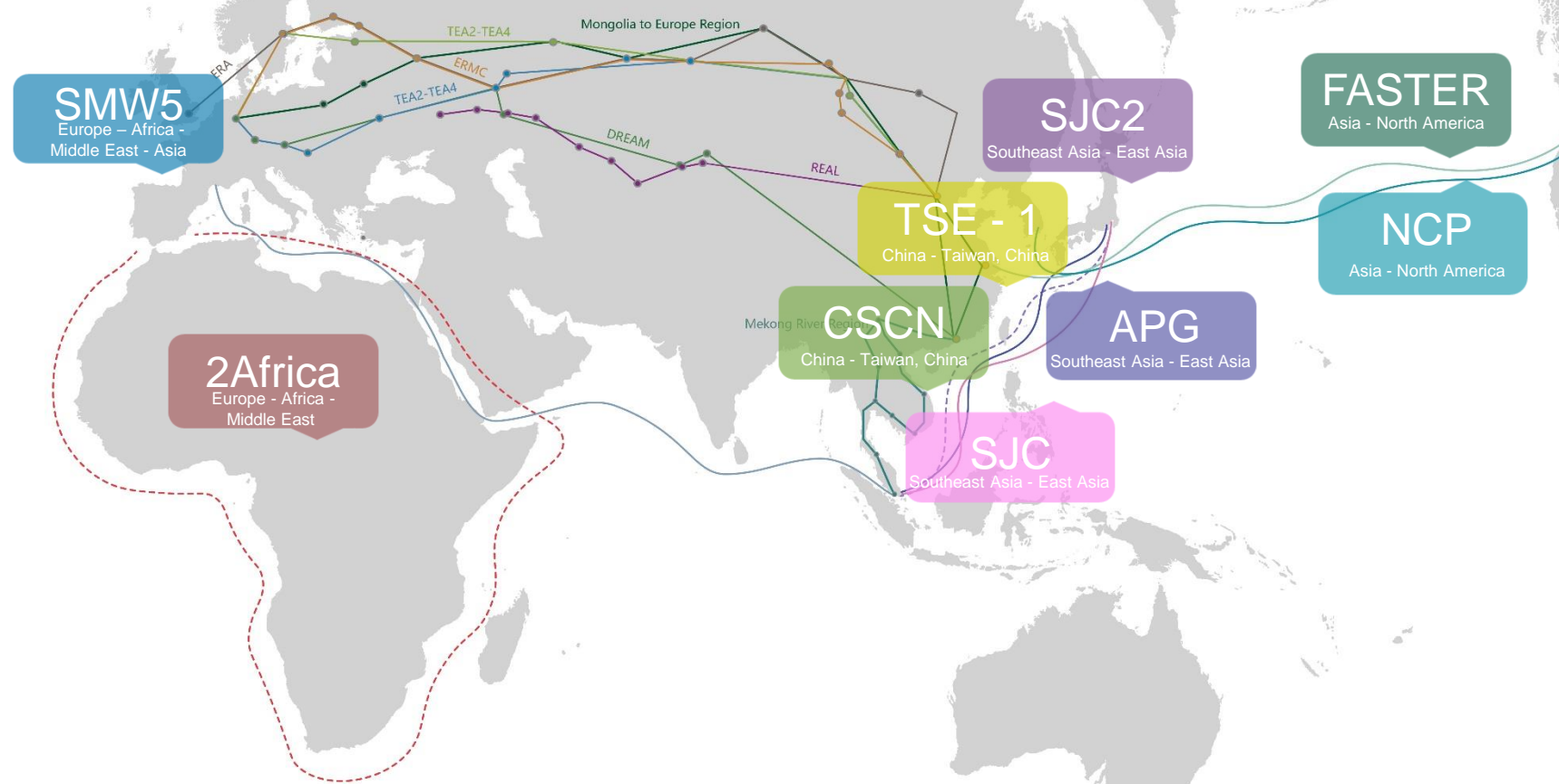


Americas

U.S. (3) | Canada | Brazil | Mexico



Network Resources | Cable Systems



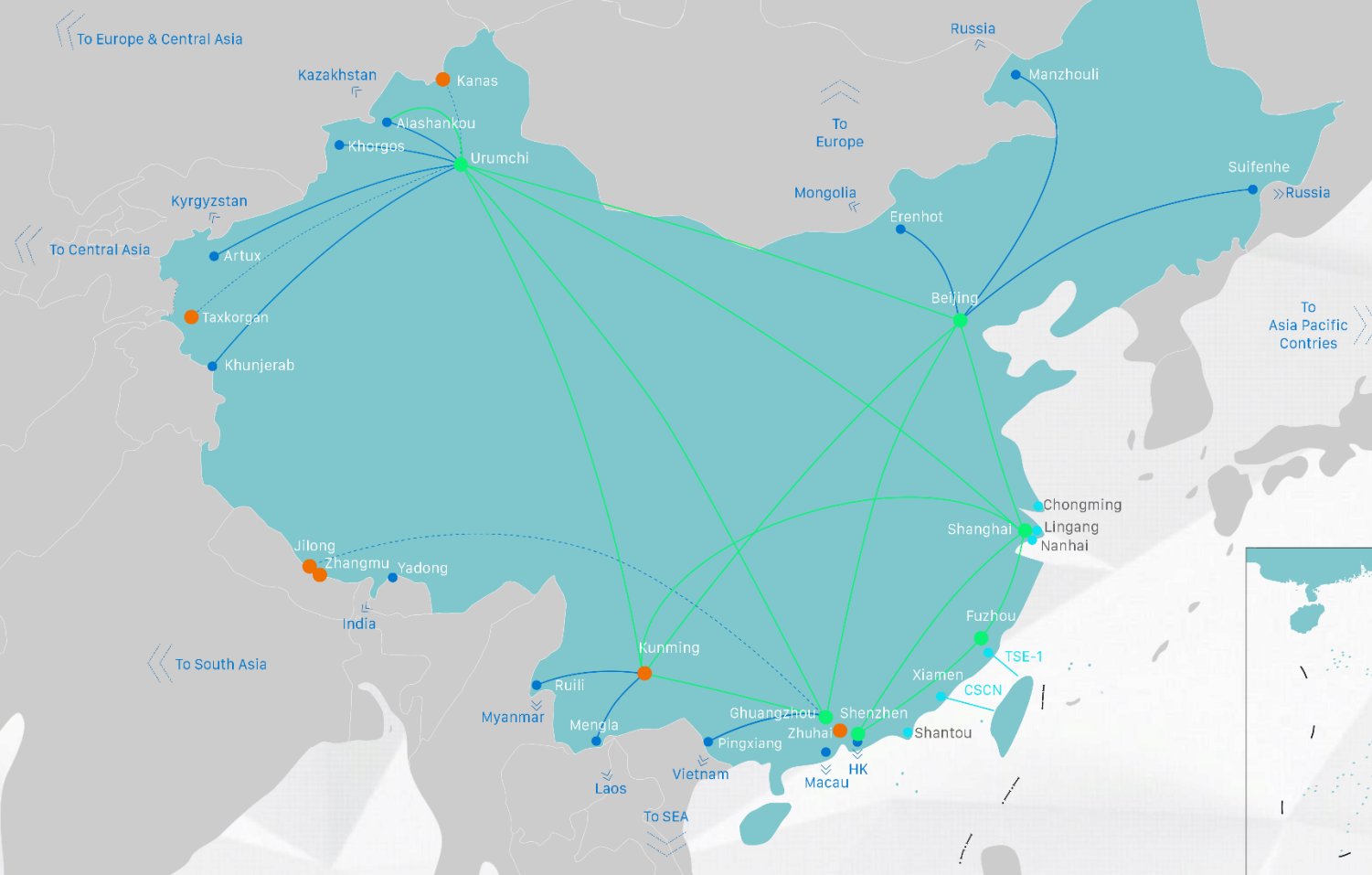
70+ Cable Resources Worldwide

90T+ International Transmission Bandwidth

9 Self-built Submarine Cable

8 Terrestrial Cable Investment

Network Resource - Gateway



25 Cross Border Terrestrial Cable Systems

Network Resources | Intelligent Connectivity – Local Ring

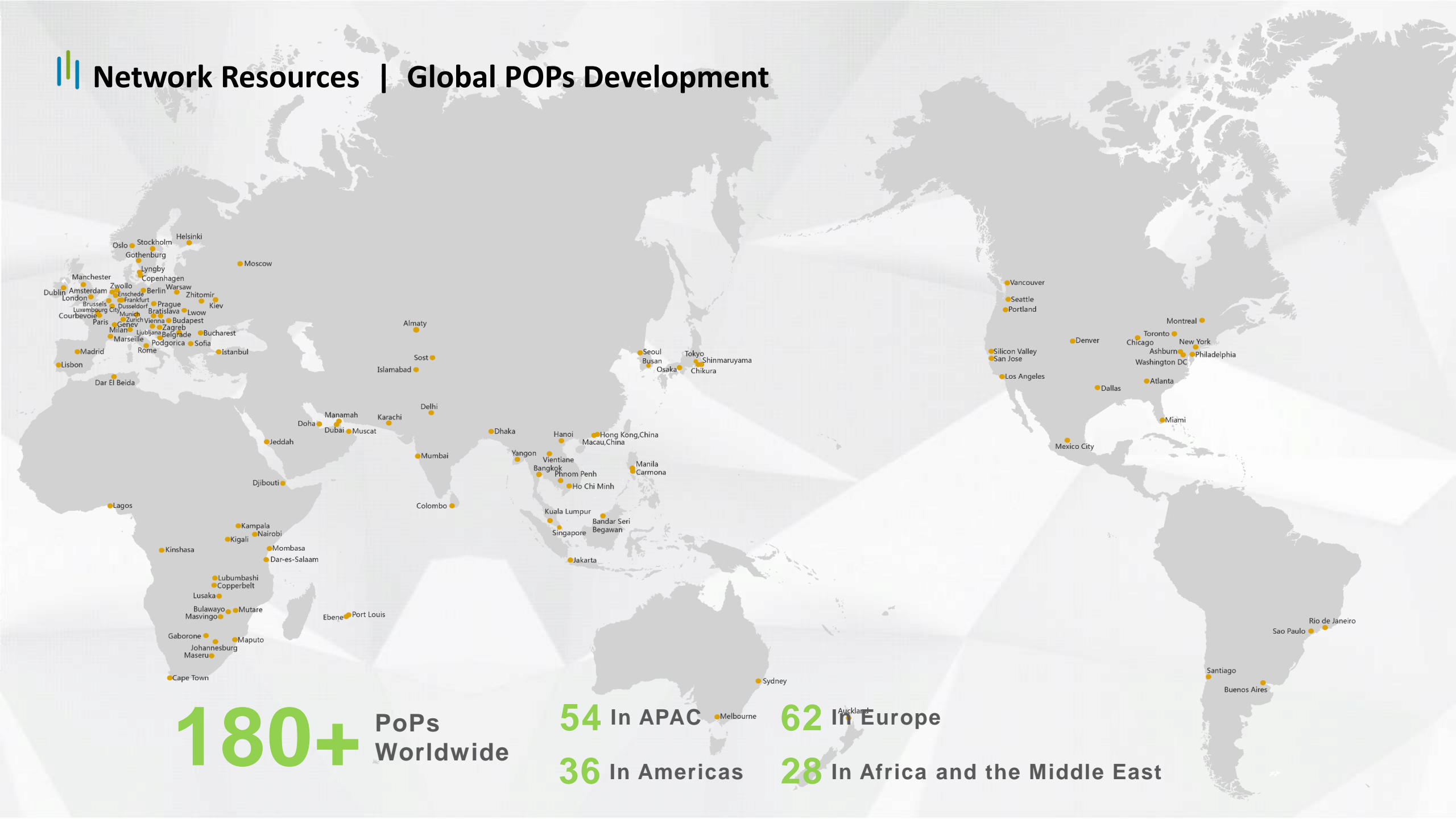


4 Local Rings intelligently connected

- Hong Kong Local Ring
- Japan Local Ring
- Singapore Local Ring
- Europe Local Ring

have been established with total bandwidth of **30T**

Network Resources | Global POPs Development



180+ PoPs Worldwide

54 In APAC
36 In Americas

62 In Europe
28 In Africa and the Middle East

iSOLUTIONS Your one-stop solution

01

**iSolutions
Cloud**

- Cloud Connect
- Multi-Cloud
- Cloud Marketplace
- SD-WAN
- Application Acceleration Network
- Cloud SMS & VoIP

02

**iSolutions
Connectivity**

- IPLC/IEPL
- MPLS VPN
- EVPN
- IP Transit
- iFinancial LLC

03

**iSolutions
Data Center**

- Hong Kong GNC
- Singapore DC
- London DC
- Frankfurt DC

04

**iSolutions
ICT**

- Office Setup
- Equipment Purchase
- Unified Communication
- Professional Service
- Managed Service

05

**iSolutions
IoT**

- IoT SIM Card
- Smart Devices
- One-stop Solutions

iSOLUTIONS

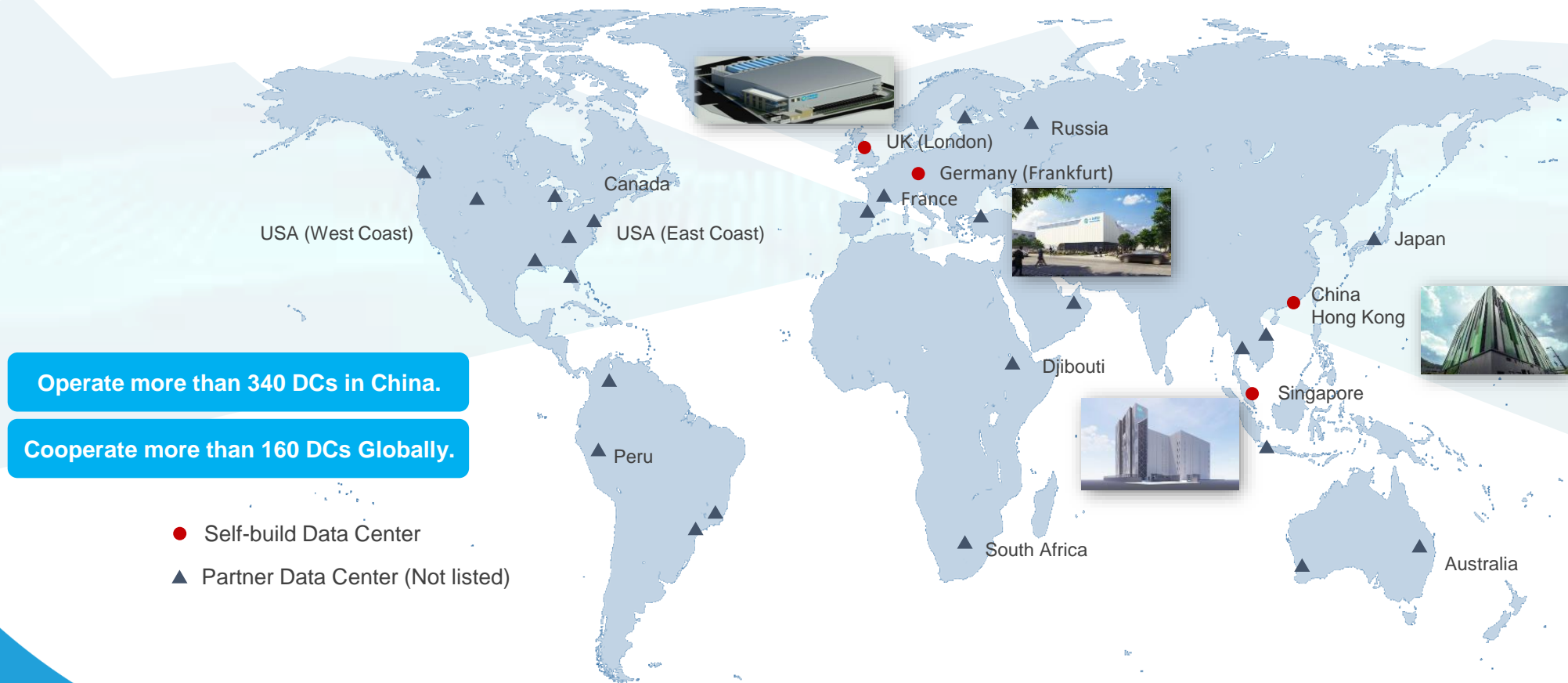
CMI Global Data Center Service

- Hong Kong
- Singapore
- London
- Frankfurt



CMI IDC IDC Distribution Plan

CMI self-build data center globally, collaborating with global reliable data center providers, relying on high quality networks and professional IT services covering the world. Providing customers with one-stop secure and stable data center service.



IDC Services



London

Location: Slough Trading Estate, LDN
Opening: End of October 2019
Capacity: >1,680 racks
Total Gross Floor Area: ~ 9,615 m²
Standard: Tier III+ (Tier IV ready)

- CMI leased-owned property with purpose built
- Over 900 million mobile subscribers
- Serves as the hub of International Network Exchange and Internet Data Center (IDC) in one building
- 3 Individual Cable Lead-in
- Direct connect to major data centers in London as well as CMI Local Rings in Europe
- High-standard 9-layers Security Control



Hong Kong, China

Location: Tseung Kwan O Inds. Estate
Opening: November 2014
Capacity: > 2,530 racks
Total gross Floor Area: ~ 24,355 m²
Standard: Tier III+ (Tier IV ready)

- CMI self-owned property with data center purpose built
- Over 900 million mobile subscribers
- Serves as the hub of International Network Exchange, Internet Data Center (IDC) and Global Network Operation Center (GNOC) in one building
- Direct connect to all the cities in 31 Mainland Provinces , CMI' s Hong Kong Local Ring and major data centers in Hong Kong
- The landing station for APG, seamlessly connects with 12 Asian countries and regions
- Closely connect with SJC & SJC2
- High-standard 9-layers Security Control



Singapore

Location: Singapore
Opening: End of May 2019
Capacity: > 2,100 racks
Total gross Floor Area: ~ 17,490 m²
Standard: Tier III+ (Tier IV ready)

- CMI self-owned property
- Over 900 million mobile subscribers
- Serves as the hub of International Network Exchange and Internet Data Center (IDC) in one building
- Direct connect to major data centers and CMI Local Rings in Singapore
- Closely connect with APG, SJC, SJC2 and SMW5 in order to seamlessly connect with Asia-Pacific (APAC), Indian Ocean as well as Europe, the Middle East and Africa (EMEA) countries /regions
- High-standard 9-layers Security Control



Product & Service One-stop-shop Solution

CMI can provide not only a secure and stable hosting environment for the equipment, but also professional service at every step of customer' s business digital transformation.

Seamless Network Access

- Large bandwidth, fast access to all cities in China
- Direct connect to China Mobile' s global network and cloud resources
- Access to CMNET, direct reach to 800 million+ Chinese mobile users
- GNC is the only landing station of APG in Hong Kong, access to 12 Asian countries and regions
- Connected to main data centers in HK through loop ring
- Carrier neutral

Professional Service

- Server and accessory device installation/unmount
- Assist in configuring IP address related information
- DNS configuration
- VLAN assignment
- Switch port assignment
- Fiber connectivity test
- Maintenance service

Advanced Cloud Service

- Server and accessory device installation/unmount
- Assist in configuring IP address related information
- DNS configuration
- VLAN assignment
- Switch port assignment
- Fiber connectivity test
- Maintenance service

Hosting Service

- 7x24 server/network device restart
- Preliminary diagnosis of managed server system and hardware failure
- Antivirus software/firewall installation and test
- 7x24 authorized login operation
- Server system security service
- Server System Vulnerability and Security Settings Service
- Server traffic monitoring and website filing services

IDC Service Hong Kong



Advantages

- CMI self-owned property with data center purpose built
- Over 946 million* mobile subscribers
- Serves as the hub of International Network Exchange, Internet Data Center (IDC) and Global Network Operation Center (GNOC) in one building
- Direct connect to all the cities in 31 Mainland Provinces , CMI' s Hong Kong Local Ring and major data centers in Hong Kong
- The landing station for APG, seamlessly connects with 12 Asian countries and regions
- Closely connect with SJC & SJC2
- High-standard 9-layers Security Control

* As of Mar 2020

Features

- Location: Tseung Kwan O Industrial Estate
- Opening: November 2014
- Capacity: >2,530 racks
- Total Gross Floor Area: ~24,355 m2
- Standard: Tier III+ (Tier IV ready)

Qualification

- ISO/IEC 27001:2013 Information Security Management Systems
- ISO 9001:2015 Quality Management Systems
- Uptime Institute Tier III – Tier Certification of Design Documents (TCDD)
- Uptime Institute Tier III – Tier Certification of Constructed Facility (TCCF)
- Leadership in Energy & Environmental Design (LEED) – Gold
- Building Environmental Assessment Method (BEAM) Plus Certification
- Payment Card Industry – Data Security Standard (PCI-DSS)



Hong Kong IDC | Overall Specification

Floor Height

- Slab to Slab Height: 6,250 mm
- Clear Height: 3,600 mm
- Raised Floor Height: 800 mm

Power

- Power Capacity: 22MVA From Dual Power Substation With Diversity Path
- 2N Transformer
- Dual UPS Supplies to Rack
- Dual PDU with STS per Rack
- 2N UPS System with 15 Minutes Backup at Full Load
- N + 1 Diesel Generator with Fuel Storage for 22 Hours Backup at Full Load
- Fuel Refill Contract with Supplier for Fuel Delivery within 4 Hours

Fire Detection and Protection

- Very Early Smoke Detection Apparatus (VESDA)
- Smoke Detector and Heat Detector
- FM200

Data Hall

- ~285 m2 Raised Floor Area per Data Hall
- Dual Separated and Dedicated Service Corridor

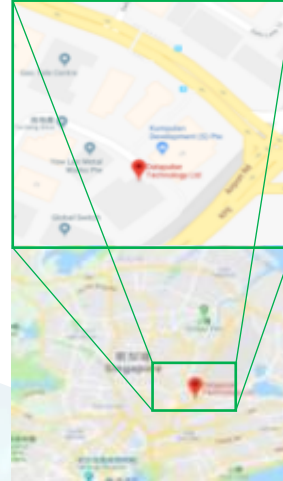
Cooling

- N + 1 Water Cooled Chiller System
- N + 1 Cooling Tower
- N + 1 CRAC System
- Down Flow System with Hot and Cold Aisles
- Temperature: 22 +/- 2oC
- Humidity: 50% +/- 10%

Connectivity

- Carrier Neutral
- Dual TBE and Meet-Me Room
- Dual Lead-In to Building with Diversity Path
- Dual Cable Trunking to Data Hall with Diversity Path
- APG Cable Landing Station
- Connection to SJC and SJC2 and Local Fiber Ring in Hong Kong

IDC Service Singapore



Features

- Serves as the Hub of International Network Exchange and Internet Data Center (IDC)
- Ground Area : ~7,330 m² / ~78,900 ft²
- Internal Space : ~17,490 m² / ~188,260 ft²
- Racks : 2,100+
- IT Load : 10.5 MW+
- Electricity Capacity: 20 MVA+
- Opening: July 2019
- Standard: Tier III



Advantages

- Dedicated data center building without windows in data hall areas
- Satisfy current and future need of data center market development
- 7 x International Standard Certificates *
- 9-Layer Security Control
- Meet the highest safety, operations, maintenance and regulatory requirements
- Dual Lead-In on both electrical and fiber networks, achieving the highest standards in the industry



Qualification

- ISO/IEC 27001:2013 Information Security Management Systems
- ISO 9001:2015 Quality Management Systems
- Uptime Institute Tier III - Tier Certification of Design Documents (TCDD)
- Uptime Institute Tier III - Tier Certification of Constructed Facility (TCCF)
- Threat, Vulnerability And Risk Assessment (TVRA)
- BCA Green Mark
- Payment Card Industry - Data Security Standard (PCI-DSS)

*For reference only



Singapore IDC | Overall Specification

Building

- Dedicated Data Center Building
- 15A Tai Seng Drive, Singapore 535225
- Tier III
- Total Gross Floor Area: ~ 17,490 m² / 188,260 ft²
- Land Lease Till Year 2053
- Launch Around July 2019

Floor Height

- Slab to Slab Height: 4,800 mm
- Clear Height: 2,600 mm
- Raised Floor Height: 800 mm

Rack, Cage and Data Hall

- Capacity : 2,162 Racks
- Standard Rack Size: 600mm (W) x 1,200mm (D) x 52U (H)
- Floor Loading (Raised Floor): 12.5kPa
- Floor Loading (Slab): 10kPa
- On Demand Modular Cage or Whole Data Hall
- Dedicated Dual CRAC Corridors (4-6/F)

Power

- Power Capacity: 20MVA from Dual Different Power Substations with Diversity Paths
- 2N Transformers
- Dual UPS and PDU Supplies to Each Rack
- 2N UPS System with 15 Minutes Backup under Full-load
- N + 1 Diesel Generator with Fuel Storage for 24 Hours Backup under Full-load
- Fuel Refill Contract with Supplier for Fuel Delivery within 4 Hours

Fire Detection and Protection

- Very Early Smoke Detection Apparatus (VESDA)
- Smoke Detectors and Heat Detectors
- Dry Pre-action Fire Suppression System
- NOVEC 1230 Suppression System

Singapore IDC | Overall Specification

Connectivity

- Carrier Neutral
- Dual MDF Rooms / Dual Telecom-Entrance-Rooms / Dual Meet-Me-Rooms
- Dual Fiber Lead-In to Building with Diversity Paths
- Dual Cable Trunkings to Data Hall with Diversity Paths
- Support for Additional Independent Dedicated Vertical Cable Trunking
- Direct Access to APG, SJC, SJC2 and SMW5 Submarine Cables
- Direct connect to major data centers in Singapore and CMI Singapore Local Fiber Ring

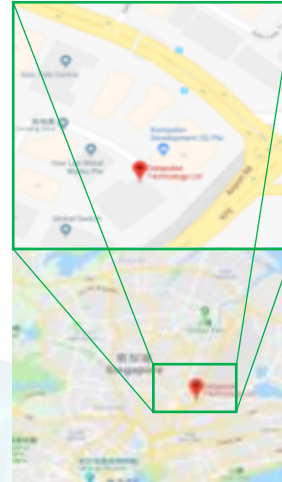
Other Facilities/Services

- Professional Remote Hand Support
- Installation and Structured Cabling
- On-Loan Tools and Accessories
- Wi-Fi Internet Access
- Meeting Rooms, Rest Area, Staging Rooms, Loading Bay Areas and Pantries
- Cargo and Passenger Lifts

Cooling

- N + 1 Water Cooled Chiller System with Continuous Cooling
- N + 1 Cooling Tower
- N + 2 CRAC System
- Down Flow System with Hot and Cold Aisles
- Temperature: 24 oC +/- 2oC
- Humidity: 50% +/- 20%

IDC Service London



Advantages

- Newly-built dedicated data centre building without windows in data hall areas
- Satisfy current and future need of data centre market development.
- Powerful data centre platform to meet the needs of the financial industry, the internet industry and other industries, now and in future
- 5 x International Standard Certificates
- 9-Layer Security Control
- 3 Individual Lead-In on Fibre Cables as well as Dual Lead-in on Electrical Networks, achieving the highest standards in the industry

* For reference only



Features

- Serves as the Hub of **International Network Exchange** and **Internet Data Centre (IDC)**
- **Ground Area:** ~ 10,000 m² / 107,639 ft²
- **Internal Space:** ~ 9,735 m² / 104,787 ft²
- **Racks:** 1,680+
- **IT Load:** 9.66 MW+
- **Electricity Capacity:** 15 MVA+
- **Opening:** December 2019
- **Standard:** Tier III



Qualification

- ISO/IEC 27001:2013 Information Security Management Systems
- ISO 9001:2015 Quality Management Systems
- Uptime Institute Tier III - Tier Certification of Design Documents (TCDD)
- Uptime Institute Tier III - Tier Certification of Constructed Facility (TCCF)
- Payment Card Industry - Data Security Standard (PCI-DSS)*

*Under Application



London IDC | Overall Specification

Building

- Newly-built Dedicated Data Centre building
- 536 Ipswich Road, Slough, SL1 4EP, UK
- Tier III
- Total Gross Floor Area: ~ 9,735 m² / 104,787 ft²
- Land Lease Till Year 2049
- Launch Around December 2019

Floor Height

- Slab to Slab Height: 5,960 mm
- Clear Height: 3,700 mm
- Raised Floor Height: 1,000 mm

Rack, Cage and Data Hall

- Capacity : 1,680 Racks
- Standard Rack Size: 600mm (W) x 1,200mm (D) x 52U (H)
- Ground Floor Loading (Raised Floor): 12.5 kPa
- Ground Floor Loading (Slab): 25 kPa
- First Floor Loading (Raised Floor): 12.5 kPa
- First Floor Loading (Slab): 12.5 kPa
- On Demand Modular Cage or Whole Data Hall
- Dedicated Dual CRAC Corridors

Power

Utility Supply

- Power Capacity: 15MVA+ Dual Power Supply from Dual Different Power Substations with Diversity Paths
- 2N Transformer

Generator and Oil Tank

- N + 1 Diesel Generator with Fuel Storage for 24 Hours Backup under Full-load
- Fuel Refill Contract with Supplier for Fuel Delivery within 4 Hours

UPS

- All UPS are configured in 2N design
- 10 Minutes Battery Backup under Full-Load

Data Hall

- Dual UPS Supplies and Dual Overhead Bus Bars to Each Rack
 - Hall 4 – 5.14kW / Rack
 - Hall 3 – 5.95kW / Rack
 - Hall 2 – 5.95kW / Rack
 - Hall 1 – 5.95kW / Rack

London IDC | Overall Specification

Cooling System

- N + 1 Air Cooled Chiller System with Free-Cooling Features Support
- 2 Buffer Vessels for 3+3 Minutes Continuous Cooling Support
- N + 2 CRAC System (All CRAC Units are Chilled Water Type)
- Down Flow System with Hot and Cold Aisles
- Temperature: 24 °C +/- 2°
- Humidity: 50% +/- 20%

Connectivity

- Carrier Neutral
- Dual Fibre Intake Rooms / Dual Telco Rooms / Dual Meet-Me-Rooms
- 3 Individual Fibre Cable Lead-in with Dual Diversity Paths
- Dual Cable Trunkings to Data Hall with Diversity Paths
- Direct connect to major data centres in UK and CMI UK Local Fibre Ring

Fire Detection and Protection

- Very Early Smoke Detection Apparatus (VESDA)
- Smoke Detectors and Heat Detectors
- NOVEC 1230 Suppression System

Other Facilities / Services

- Professional Remote Hand Support
- Installation and Structured Cabling
- On-Loan Tools and Accessories
- Wi-Fi Internet Access
- Meeting Rooms, Rest Area and Pantries
- Staging Rooms, Store Rooms and Loading Bay Areas
- Parking Space for Cars, Lorry and Containers
- Cargo and Passenger Lifts

IDC Service Frankfurt, Germany



Advantages

- CMI self-owned property
- Serves as the hub of International Network Exchange and Internet Data Center in one building
- Direct connect to major data centers in Frankfurt and CMI Local Rings in Europe
- Closely connect with ERM, TEA3, TRA4 and SMW5 in order to seamlessly connect with Asia-Pacific as well as Europe, the Middle East and Africa regions
- High-standard 9-layer Security Control



Features

- Location: Mörfelden
- Opening: Q4, 2020
- Site Area/ GFA: ~ 6,230m² / 9,601m²
- Capacity : >1360 Racks
- IT Loading/ utility Feed : ~6.8 MW / 12MVA+
- Standard: Tier III



Qualification

- ISO/IEC 27001:2013 Information Security Management Systems #
- ISO 9001:2015 Quality Management Systems #
- Uptime Institute Tier III - Tier Certification of Design Documents (TCDD)
- Uptime Institute Tier III - Tier Certification of Constructed Facility (TCCF) #
- Payment Card Industry - Data Security Standard (PCI-DSS) #
- TÜViT Trusted Site Infrastructure (TSI) Level 3 #



申请中

Frankfurt IDC | Overall Specification

Building

- Dedicated Data Center Building Without Window
- Starkenburgstraße 12, 64546 Mörfelden, Germany
- Freehold Property
- Total Gross Floor Area: ~ 6,230 m² / 67,059 ft²
- Launch Around Q4 2020
- Tier III
- High-standard 9-Layer Security Control

Rack and Data Hall

- Capacity : 1,360 Racks
- Standard Rack Size: 600mm (W) x 1,200mm (D) x 52U (H)
- 1/F Floor Loading (Slab): 12.5 kN/m²
- G/F Floor Loading (Slab): 12.5 kN/m²
- On Demand Modular Cage or Whole Data Hall
- Dedicated Dual CRAC Corridors

Floor Height

- Slab to Slab Height: 5,400 mm
- Clear Height: 4,000 mm

Power

- Power Capacity: 12MVA Dual Power Supply from Dual Different Power Substations with Diversity Paths
- 2N Transformers
- 2N UPS System with 6 Minutes Backup under Full-load
- Dual UPS Supplies and Dual PDU Supplies to Each Rack
- N + 1 Diesel Generator with Fuel Storage for 48 Hours Backup under Full-load

Frankfurt IDC | Overall Specification

Cooling

- N + 1 Air Cooled Chiller System with Free-Cooling Features Support
- Buffer Vessels for 6 Minutes Continuous Cooling Support
- N + 2 CRAC System (All CRAC Units are Chilled Water Type)
- Front Flow System with Hot and Cold Aisles
- Temperature: 24 °C +/- 2°C
- Humidity: 50% +/- 20%

Connectivity

- Carrier Neutral
- Dual Fiber Intake Rooms / Dual Telco Rooms / Dual Meet-Me-Rooms
- 2 Individual Fiber Cable Lead-in with Dual Diversity Paths
- Dual Cable Trunkings to Data Hall with Diversity Paths
- Direct connect to major data centers in Frankfurt and CMI Local Fiber Ring in Europe

Fire Detection and Protection

- Very Early Smoke Detection Apparatus (VESDA)
- Smoke Detectors and Heat Detectors
- Nitrogen Suppression System

Other Facilities / Services

- Professional Remote Hand Support
- Installation and Structured Cabling
- On-Loan Tools and Accessories
- Wi-Fi Internet Access
- Meeting Rooms and Pantries
- Staging Rooms, Store Rooms and Loading Bay Areas
- Cargo and Passenger Lifts



International

iSOLUTIONS

Thank You!

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