



# ISKANDAR PUTERI CORE DATA CENTER (IPDC)

TM is Malaysia's leading Managed Data Center Services provider. By leverage on TM's domestic, regional and international Point-of-Presence (POPs), TM is committed in building a carrier-neutral and green Data Center in Iskandar Malaysia.

Strategically located between Singapore and Kuala Lumpur, IPDC is positioned to capture slide of regional market by offering high value managed services including cloud computing, virtualization, workspace and collaboration services.

## LOCATION

**Nusajaya Tech Park, Iskandar Malaysia, Johor Bahru**

- Located in BCA Green Mark district
- 5 minutes from Malaysian Customs, Immigration and Quarantine Complex (CIQ), Tuas Second Link
- 15 minutes to Central Business District (CBD) Johor Bahru
- 25 minutes to Senai International Airport
- 35 minutes to CBD Singapore
- 50 minutes to Changi International Airport

## POWER

- Dual 33kV power feed from 2 separate upstream utility substations, providing up to 20mW capacity built & Green Data Center
- 2N configuration to protect critical IT load
- Able to support range of power density from 166W/sq. ft. up. Average about 200W/sq. ft.
- Continuous rated diesel generators
- On-site standby diesel support up to 48 hours
- Intelligent power meter used to manage power consumption and billing

## SPACE BREAKDOWN

350,000	Gross Floor Area (sq. ft.)
2	No of Phases
30,000	East Wing (whitespace in sq. ft.)
60,000	West Wing (whitespace in sq. ft.)
1.6	Design PUE

## CERTIFICATION

- Uptime Institute Tier III Design & Constructed
- Green Building Index (GBI) Certified
- Threat, Vulnerability, Risk Assessment (TVRA)
- PCI DSS
- ISO27001



# ISKANDAR PUTERI CORE DATA CENTER (IPDC)

## POWER

- 24x7 security officers
- Integrated security management system
- Equipped with mail, parcel and baggage X-ray scanner
- Anti-passback man traps and biometric (triple factor authentication) access control
- Fence intrusion detection system with perimeter surveillance integration
- K4 rated retractable bollards
- 9 levels of physical security pass required before gaining access to hosted computer and equipment

## TELECOMMUNICATIONS

- 4 diverse fiber paths to external manholes
- 2N distribution network paths within the facility
- TM Iskandar International Gateway (IIGW)
- Carrier-neutral data center with rich telco ecosystem
- Twin Core Data Center - Low latency <4ms. fiber connectivity link to Klang Valley Data Center which is an ideal primary and secondary data Center set up site infrastructure availability - ~99.982% availability which is ideal for hosting critical systems

## FIRE DETECTION & SUPPRESSION

- Fire and smoke detection sensors above and below raised floor
- NOVEC-1230 primary fire suppression system
- Dry pipe pre-actioned system as secondary building Protection
- Early sensitive smoke detection system

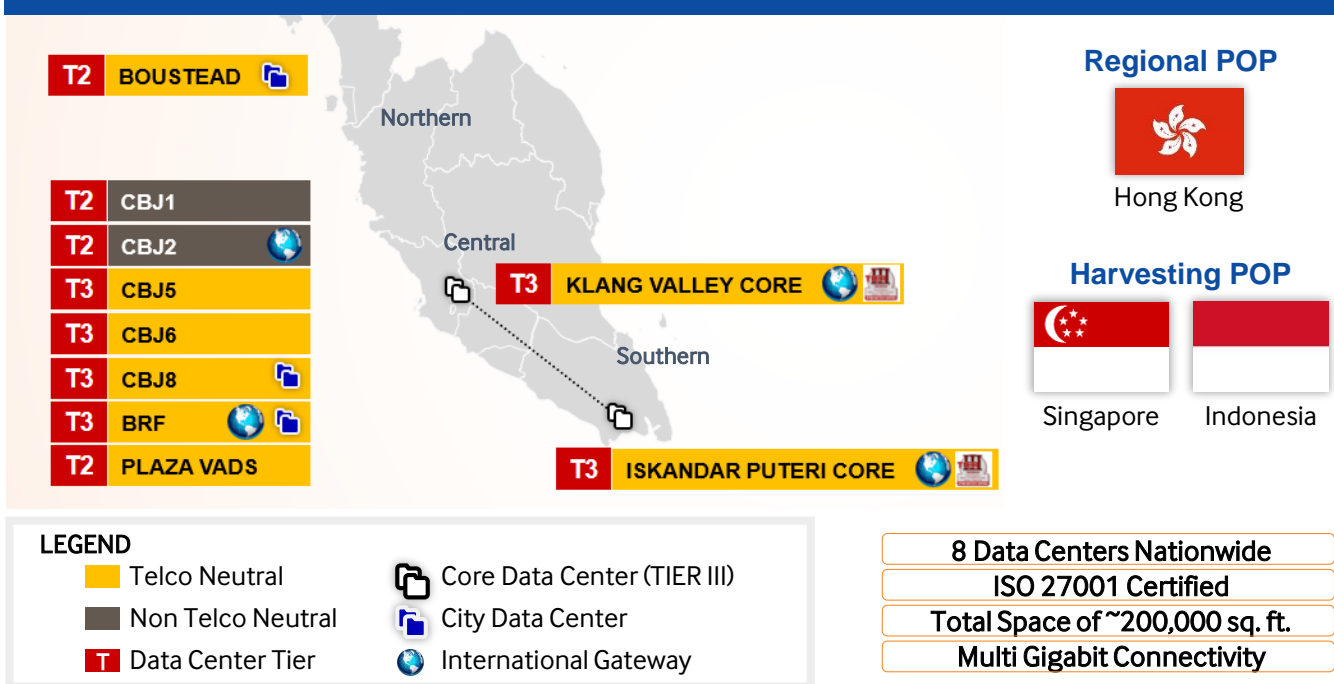
## COOLING SYSTEM

- Concurrently maintainable cooling system
- N+2 CRAC system with built-in maintenance corridor
- N+1 high efficiency water cooled chiller
- Pressurised clean data hall
- Integrated Building Management System & Data Center Infrastructure Management (DCIM)
- 4 diverse fiber paths to external manholes
- 2N distribution network paths within the facility

## SERVICES OFFERED

- Co-Location/Hosting (Dedicated/Cage/Wholesale)
- DC Internet (DCI)
- IP Address
- Metro Connect
- Cloud Connect
- Cross Connect
- DC Infrastructure Management (DCIM)
- Business Suite
- DR Workspace
- Smart Hand

## TM ONE Data Center Locations





## KLANG VALLEY CORE DATA CENTER (KVDC)

TM is Malaysia's leading Managed Data Center Services provider. By leverage on TM's domestic, regional and international Point-of-Presence (POPs), TM is committed in building a carrier-neutral and green Data Center in Klang Valley.

Located in Cyberjaya, Malaysia, the Klang Valley Data Center (KVDC) is a carrier neutral and green facility. Connected to TM International Gateway in Cyberjaya, it will provide high value managed services including cloud computing, virtualization, workspace and collaboration services.

### LOCATION

#### Klang Valley Data Center, Cyberjaya, Malaysia

- Located in Malaysia's Multimedia Super Corridor
- 30 minutes to Kuala Lumpur Central Business District
- 30 minutes to Kuala Lumpur International Airport (KLIA and KLIA2)

### POWER

- Dual 33kV power feed from 2 separate upstream utility substations, providing up to 20mW capacity built & Green Data Center
- 2N configuration to protect critical IT load
- Able to support range of power density from 166W/sq. ft. up. Average about 200W/sq. ft.
- Prime rated diesel generators
- On-site standby diesel support up to 48 hours
- Intelligent power meter used to manage power consumption and billing

### SPACE BREAKDOWN

400,000	Gross Floor Area (sq. ft.)
90,000	Capacity (whitespace in sq. ft.)
20,000	Office Capacity (whitespace in sq. ft.)
60,000	West Wing (whitespace in sq. ft.)
1.8	Target Design PUE

### CERTIFICATION

- Uptime Institute Tier III Design & Constructed
- Green Building Index (GBI)
- Threat, Vulnerability, Risk Assessment (TVRA)
- LEEDS Certification
- PCI-DSS
- ISO27001



# KLANG VALLEY CORE DATA CENTER (KVDC)

## COOLING SYSTEM

- Concurrently maintainable cooling system
- N+2 CRAC system with built-in maintenance corridor
- N+1 high efficiency chiller system

## SECURITY

- 24x7 security officers
- Integrated security management system
- Equipped with baggage X-Ray scanner
- Anti-Passback man traps and biometric (dual factors authentication) access control
- Physical: Secure reinforced concrete perimeter fence; anti crash vehicle barrier
- Fence intrusion detection system with perimeter surveillance integration
- Electronic: 90 days recordings; access control with multifactor authentication; biometric scanner
- 9 layers of physical security pass required before gaining access to hosted computer and equipment

## FIRE DETECTION & SUPPRESSION

- Fire and smoke detection sensors above and below raised floor
- NOVEC-1230 primary fire suppression system
- Pre-action dry pipe system as secondary fire suppression system
- Early sensitive smoke detection system


## TELECOMMUNICATION

- 4 diverse fiber paths to external manholes
- 2N distribution network paths within the facility
- TM Iskandar International Gateway (IIGW)
- Carrier-neutral data center with rich telco ecosystem
- Twin Core Data Center - Low latency <4ms. Fiber connectivity link to Iskandar Puteri Data Center which is an ideal primary and secondary data center set up infrastructure availability - ~99.982% availability which is ideal for hosting critical systems


## SERVICES OFFERED

- Managed Hosting (Dedicated /Cage/Wholesale)
- DC Internet (DCI)
- IP Address
- Metro Connect
- Cloud Connect
- Cross Connect
- DC Infrastructure Management (DCIM)
- Business Suite
- DR Workspace
- Smart Hand

## TM ONE Data Center Locations

**T2** BOUSTEAD 

**T2** CBJ1

**T2** CBJ2 

**T3** CBJ5

**T3** CBJ6

**T3** CBJ8 

**T3** BRF  

**T2** PLAZA VADS



### Regional POP



Hong Kong

### Harvesting POP




Singapore



Indonesia

### LEGEND

 Telco Neutral

 Non Telco Neutral

 Data Center Tier

 Core Data Center (TIER III)

 City Data Center

 International Gateway

8 Data Centers Nationwide

ISO 27001 Certified

Total Space of ~200,000 sq. ft.

Multi Gigabit Connectivity