

DATA CENTER

Santo Domingo 1

(SDO 1)

KIO is an international company, founded in 2002, a provider of mission-critical Information Technology services that operates state-of-the-art Data Centers with the highest security, availability and density in Mexico, Colombia and Central America. KIO hosts a robust and wide ecosystem of different industry sectors in the region within its Data Centers ensuring a professional, redundant, scalable and secure environment.

KIO SDO1 started up operations in 2014, with a technology complex with TIER IV characteristics and certification.

KIO SDO1 1 is located in the "Las Américas" Free Trade Zone in Santo Domingo, Dominican Republic.

Coordinates 18°27'47.3"N 69°42'29.8"W

CHARACTERISTICS

Design

One computer room with an area of 223m², a floor with a height of 0.90m with anti-seismic pedestals and hurricane-proof construction with TIER IV design features and certification.

Electrical capacity

It has two 275 kVA UPS. Redundant with sufficient capacity to provide uninterrupted and filtered power to all equipment installed in the phase accommodation area: It has an advanced battery monitoring system.

Redundancy

2N in the electrical equipment, with two 450 kW emergency power generators, with two diesel storage tanks, providing 7-day autonomy. The cooling equipment has a 2N configuration.

Power supply / Service drop

Medium-voltage 13.2 kV power supply / service drop.

Energy efficiency

Cold aisle containment helping deliver an average PUE of 1.6.

Carrier neutral

Open invitation to all Carriers.

The current Carriers are:

- Altice
- Claro
- Columbus Networks
- Estrela
- GoldData
- Onemax
- Wind Telecom

KIO also has a high-speed interconnection network among its Data Centers.

Monitoring

It has a Building Monitoring System (BMS), which monitors the efficiency and proper functioning of the entire electromechanical infrastructure of the Data Center.

Fire protection

It has smoke detectors, manual stations and audiovisual alerts in all areas, in compliance with the standards of the National Fire Protection Association (NFPA). A Very Early Smoke Detection Apparatus (VESDA) has also been installed, as well as a double interlock preaction system..

NOC

Advanced operations and network monitoring center.

Qualified personnel

There are trained and qualified operating personnel 7x24x365 days a year.

Security

There are 5 two-factor authentication (proximity and facial recognition biometrics) controls, with a 7x24x365 Video Surveillance system with a 90-day storage capacity.

PHYSICAL CHARACTERISTICS

Type of walls	Reinforced concrete
Wall thickness	18 cm (7 inches)
Perimeter wall	Yes
Construction of perimeter wall	Reinforced concrete
Wheelchair access	Yes
Dedicated Data Center building	Yes
Distance to a police station	4 km (2.48 miles)
Distance to a fire station	300 m (0.18 miles)
Data Hall No1 technical floor area	223 m ² (2,400 ft ²)
MDA A technical floor area	12 m ² (129.16 ft ²)
MDA B technical floor area	15.22 m ² (163.82 ft ²)
MPOE A technical floor area	13.2 m ² (142.08 ft ²)
MPOE B technical floor area	12.45 m ² (134.01 ft ²)
Raised floor - Concentrated load	567 kg (1,250 lb)
Raised floor - Uniform load	1,952.97 kg/m ² (400 lb/ft ²)
Raised floor - Impact load	65 kg (150 lb)
Raised floor - Last load	2,222 kg (4,900 lb)
Separate room for UPS	Yes
UPS room with redundant air conditioning	Yes
Maximum cabinet capacity	108 approximately
Space availability with perimeter cage	Yes
Height above sea level (meters)	16 m (52.4934 ft)
Distance to the ocean (kilometers)	902 m (0.560 miles)

POWER CHARACTERISTICS

Redundancy	2N
Availability	Uptime Institute Tier IV Design
Design capacity in m2	1 kW / IT
UPS capacity	275 kVA
Constant battery monitoring	Yes
Transformer capacity	500 kVA
Number of power connections	1
UPS autonomy time	10 minutes
Diesel autonomy time	7 days
Total diesel tank capacity	22,712 liters (5,999.8757 gal)
Number of generators	2
Total generator capacity	450 kW

ELECTROMECHANICAL CHARACTERISTICS (COOLING)

Number of total units	4
Number of redundant units	2
Tons of cooling for the Data Center	160

SECURITY

Access control	Mantrap
Authentication factors	Two (Facial biometrics and proximity card)
Visitor log	Yes
7x24 Security personnel	Yes
Security cameras	Yes
Minimum DVR recording time	90 days
Fire detection	VESDA
Automatic fire extinguishing	Double interlock preaction

COMMUNICATIONS

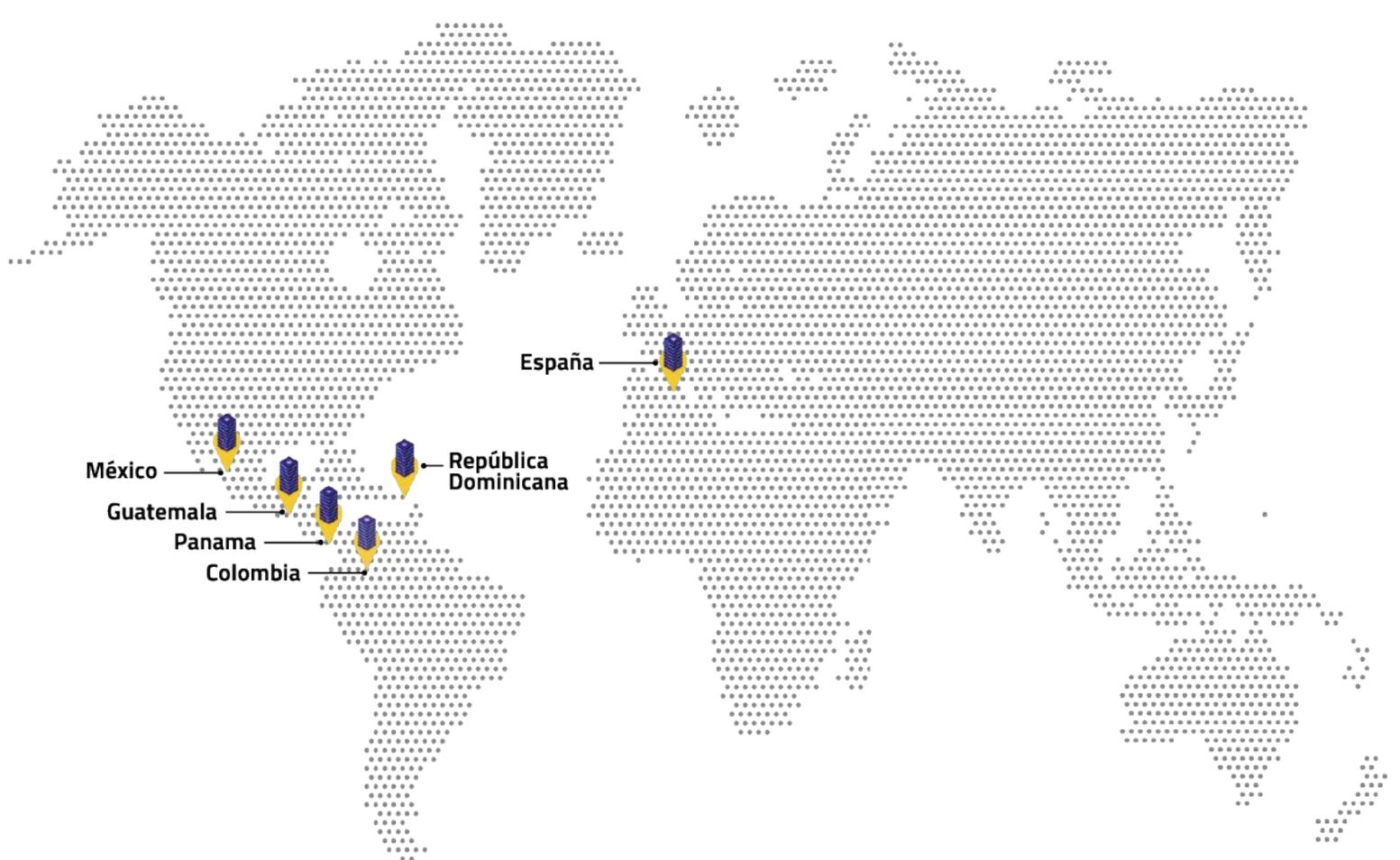
Copper wiring	Category 6A or higher
Fiber wiring	Single mode and multimode
Wire covering	Plenum and/or LSOH
Space for Carriers	Yes
Site Entry	Yes

CERTIFICATIONS

Uptime Institute Tier IV	ISO/IEC27001:2013
PCI DSS	SSAE18



SSAE18



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