DATA CENTER
KIO Mexico 1 (MEX1)

SPEC SHEET

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 **MEX1** started operations in 2002, this Data Centers have TIER III characteristics.

KIO MEX1 is located at Carretera México-Toluca 5287, Cuajimalpa, La Rosita, Lomas de Vista Hermosa, México City, CDMX, CP 05000.

Coordinates 19°21'51.23"N 99°16'37.45"W

CHARACTERISTICS

Design
Four computer rooms with an area of 650 m2 each, with a reinforced false floor with earthquake-proof pedestals and a category-4 structure. The Data Center was designed based on the Uptime Institute Standard, specifically as a TIER III design.

Electrical capacity
It has eight UPS of 400 kVA, that are redundant and have sufficient capacity to provide uninterrupted and filtered power to the installed equipment. They also have an advanced battery monitoring system.

Redundancy
N+1 in the electrical equipment, with four 1,5 MW emergency power generators. They have diesel storage tanks, providing 7-day autonomy. The cooling equipment has an N+2 configuration, 8 CRAC's for redundancy.

Power supply / Service drop
Two medium-voltage (23 kV) power supply connections / service drops.

Energy efficiency
Average PUE of 1.7.

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

Carrier neutral
Open invitation to all Carriers.
The current Carriers are:

- ATC
- Axtel / Alestra
- Bestel
- C3ntro
- Cogent
- EdgeUno
- Flō Networks
- Izzi
- Maxcom
- MCM (Megacable)
- Metrocarrier
- Metronet
- Metrored
- Telmex
- TotalPlay

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

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), as well as a Very Early Smoke Detection Apparatus (VESDA) and a double interlock preaction SECO 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. The center has received Payment Card Industry Data Security Standard (PCI) certification.

KIO Data Centers

PHYSICAL CHARACTERISTICS

Type of walls	Reinforced concrete
Wall thickness	20 cm (7.87 inches)
Perimeter wall	Yes
Construction of perimeter wall	Block
Wheelchair access	Yes
Dedicated Data Center building	Yes
Distance to a police station	4.4 km (2.73 miles)
Distance to a fire station	4.8 km (2.98 miles)
Data Hall No1 technical floor area	650 m2 (6,992 ft2)
Data Hall No2 technical floor area	650 m2 (6,992 ft2)
Data Hall No3 technical floor area	650 m2 (6,992 ft2)
Data Hall No4 technical floor area	650 m2 (6,992 ft2)
Raised floor - Concentrated load	454 kg (1,000 lb)
Raised floor - Uniform load	2,216 kg/m2 (454 lb/ft2)
Raised floor - Impact load	79 kg (175 lb)
Raised floor - Last load	1,769 kg (3,900 lb)
Separate room for UPS	Yes
UPS room with redundant air conditioning	Yes
Maximum cabinet capacity	1,100 approx.
Space availability with perimeter cage	Yes
Height above sea level (meters)	2,264 m (7,427.82 ft)
Distance to the ocean (kilometers)	280 km (173.98 miles)

POWER CHARACTERISTICS

Redundancy	N+1
Availability	ICREA Level IV
Design capacity in m2	0.807 kW / IT
UPS capacity	400 kVA
Constant battery monitoring	Yes
Transformer capacity	1,500 kVA
Number of power connections	2
UPS autonomy time	11 minutes
Diesel autonomy time	7 days
Total diesel tank capacity	60,000 liters (15,850 gl)
Number of generators	4
Total generator capacity	1,500 kW

ELECTROMECHANICAL CHARACTERISTICS (COOLING)

Number of total units	32
Number of redundant units	8
Tons of cooling for the Data Center	960

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

ICREA Level IV	ISO/IEC20000-1:2018
ICREA Level VI	ISO/IEC27001:2013
CEEDA SILVER	ISO/IEC 9001:2015
PCI DSS	ISO/IEC 22301:2012
SSAE18 (SOC 1)	ISO/IEC 37001:2016
Uptime Institute Tier III	ISO/IEC 14001:2015

TIER IV DESIGN KIO Networks KIO/QS July 11, 2013 UPTIME INSTITUTE CERTIFIED

PCI DSS COMPLIANT

SSAE18

International Computer Room Experts Association

CEEDA

Servicios de TI ISO/IEC 20000-1

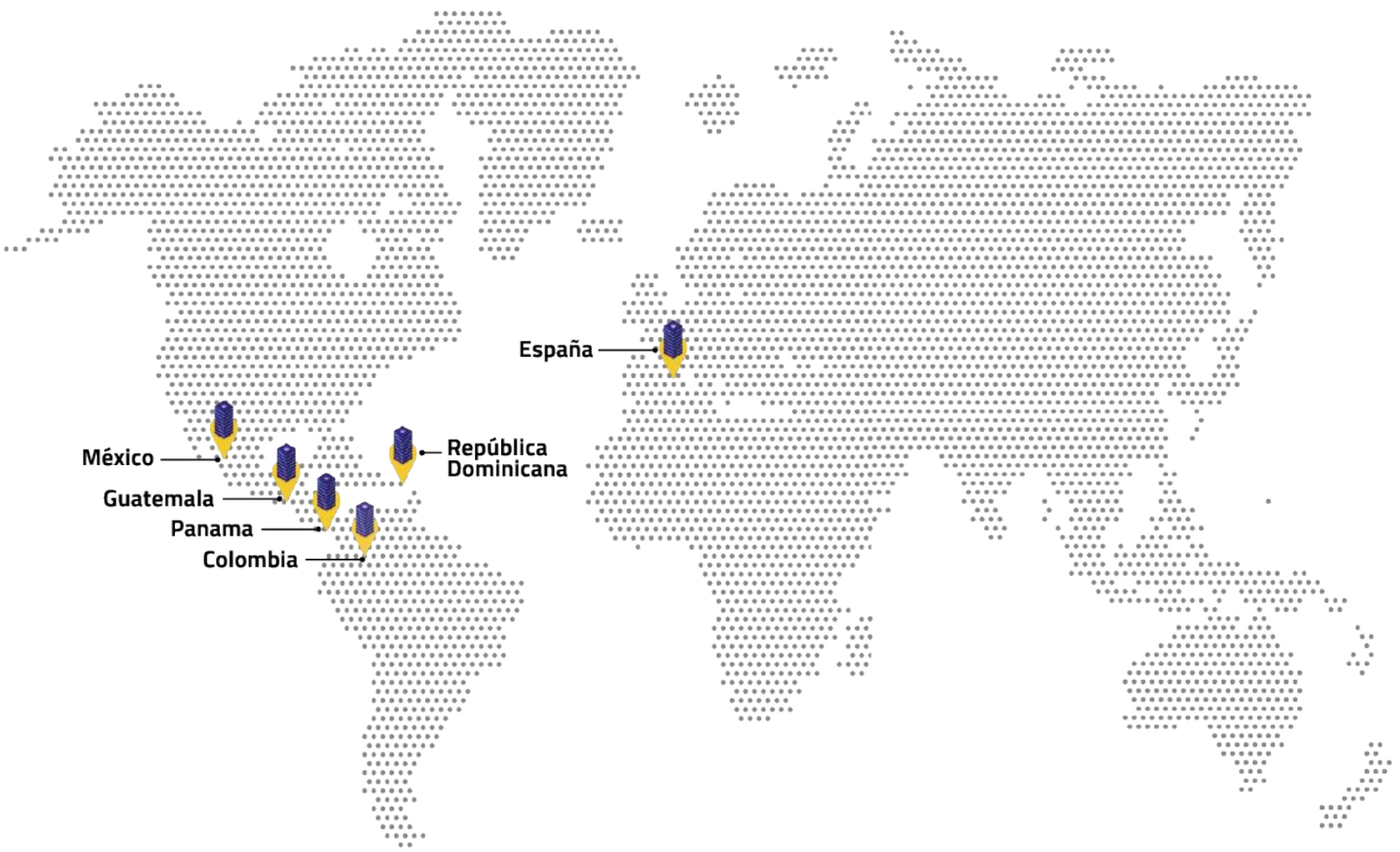
Seguridad de la Información ISO/IEC 27001

Calidad ISO 9001

Continuidad de Negocio ISO 22301

Antisoborno ISO 37001

Ambiental ISO 14001



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